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(FILE 'HOME' ENTERED AT 11:20:33 ON 10 SEP 2003)

FILE 'REGISTRY' ENTERED AT 11:20:42 ON 10 SEP 2003

L1 STRUCTURE UPLOADED

L2 1 S L1 SSS SAM

L3 26 S L1 SSS FULL

FILE 'CAPLUS, MEDLINE' ENTERED AT 11:30:39 ON 10 SEP 2003

L4 8 S L3

FILE 'REGISTRY' ENTERED AT 11:31:18 ON 10 SEP 2003

L5 26 DUP REM L3 (0 DUPLICATES REMOVED)

FILE 'CAPLUS, MEDLINE' ENTERED AT 11:31:30 ON 10 SEP 2003

FILE 'REGISTRY, BEILSTEIN, USPATFULL, CA, CHEMCATS' ENTERED AT 11:49:37
ON 10 SEP 2003

L6 10 S L3

L7 10 DUP REM L6 (0 DUPLICATES REMOVED)

L8 9 S L6 NOT L5

L9 0 S L6 NOT L4

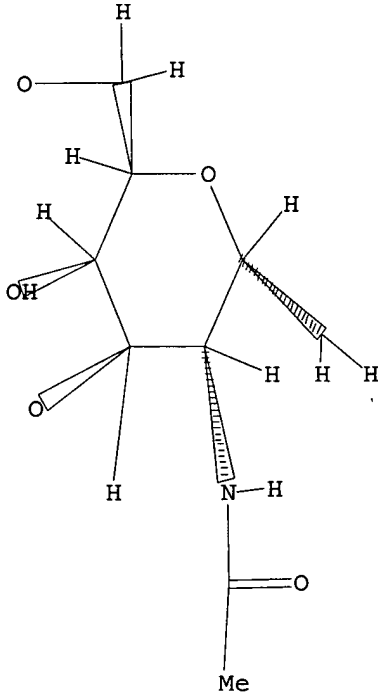
Uploading non-mucin-537k.str

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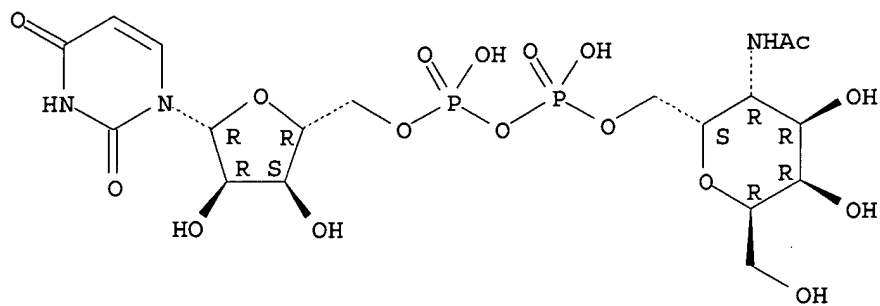
L1 HAS NO ANSWERS

L1	STR
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Structure attributes must be viewed using STN Express query preparation.

Absolute stereochemistry. Rotation (+).



REFERENCE COUNT:

27

THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 14 1-8 ibib abs hitstr

L4 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2002:226779 CAPLUS

DOCUMENT NUMBER: 136:232498

TITLE: Preparation of non-mucine-type sialo-oligosaccharide monoclonal antibodies as immunostimulants and antiviral and antitumor agents

INVENTOR(S): Tomiyama, Hiroshi; Ueyama, Naoto; Yanagiya, Masahiro; Ohkura, Yasufumi

PATENT ASSIGNEE(S): Kotobuki Pharmaceutical Co., Ltd., Japan

SOURCE: Fr. Demande, 90 pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

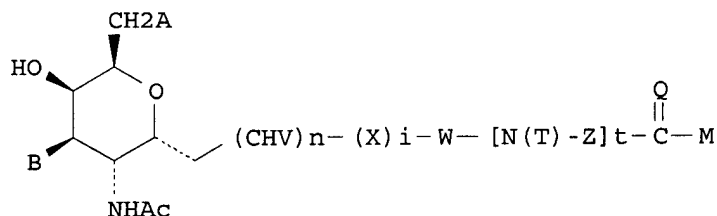
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2812814	A1	20020215	FR 2001-10714	20010810
JP 2002275091	A2	20020925	JP 2001-234804	20010802
DE 10138935	A1	20020321	DE 2001-10138935	20010808
US 2002107224	A1	20020808	US 2001-925537	20010810
CN 1341595	A	20020327	CN 2001-132836	20010811
GB 2368580	A1	20020508	GB 2001-19717	20010813

PRIORITY APPLN. INFO.: JP 2000-244567 A 20000811

OTHER SOURCE(S): MARPAT 136:232498

GI



I

AB Sialo-oligosaccharides I wherein A is OH, sialic acid; B is galactose; T is H, amine; M is H, OH; X is O, NH, S, SO, SO₂; Q is H, O; V is H, alkyl; W is alkylidene; Z is alkylidene; i, m, and t are 0-1, were prepd. as immunostimulants and antiviral and antitumor agents. Thus, 2-(2-acetylamino-2-deoxy-.alpha.-D-galactopyrano-1-yl)-1-[2-(N-{[N-(2-{2-[2-(3-sulfenylpropoxy)ethoxy]ethoxy}ethyl)carbamoyl]methyl}acetylamino)ethoxy]ethane was prepd. and tested in mice for IgG and IgM antibodies as vaccine immunostimulant and antiviral and antitumor agent.

IT 403613-70-7DP, reaction products with hemocyanin KLH

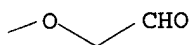
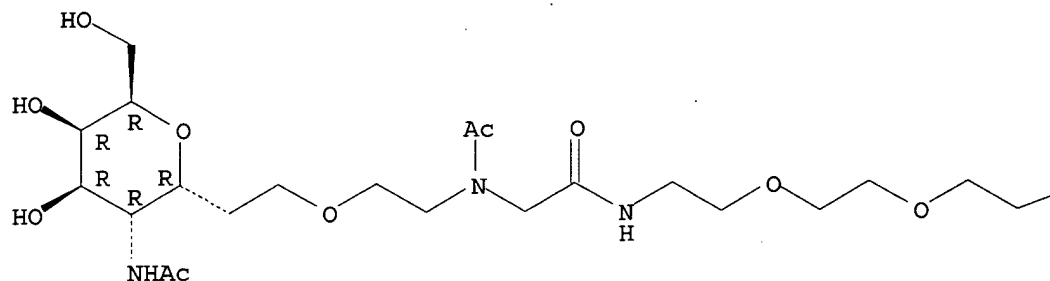
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(prepn. of non-mucine-type sialo-oligosaccharide monoclonal antibodies as immunostimulants and antiviral and antitumor agents)

RN 403613-70-7 CAPLUS

CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-8-O-(3-acetyl-5,17-dioxo-9,12,15-trioxa-3,6-diazaheptadec-1-yl)-2,6-anhydro-5,7-dideoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 403613-57-0P 403613-58-1P 403613-61-6P

403613-73-0DP, reaction products with hemocyanin KLH

403613-74-1DP, reaction products with hemocyanin KLH

403613-75-2DP, reaction products with hemocyanin KLH

403613-78-5DP, reaction products with hemocyanin KLH

403613-79-6DP, reaction products with hemocyanin KLH

403613-80-9DP, reaction products with hemocyanin KLH

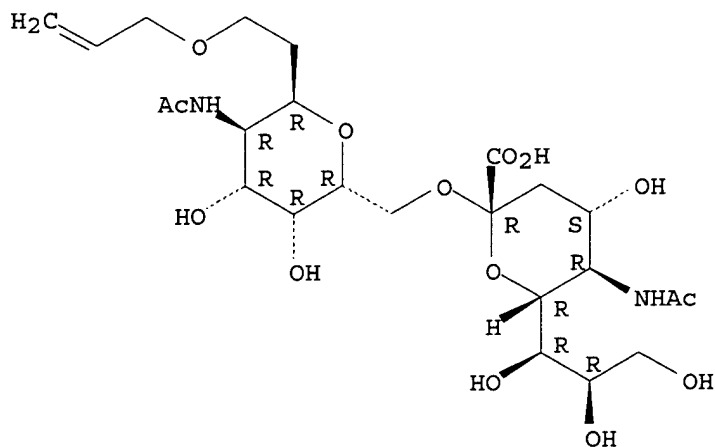
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of non-mucine-type sialo-oligosaccharide monoclonal antibodies as immunostimulants and antiviral and antitumor agents)

RN 403613-57-0 CAPLUS

CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-1-O-(N-acetyl-.alpha.-neuraminosyl)-2,6-anhydro-5,7-dideoxy-8-O-2-propenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



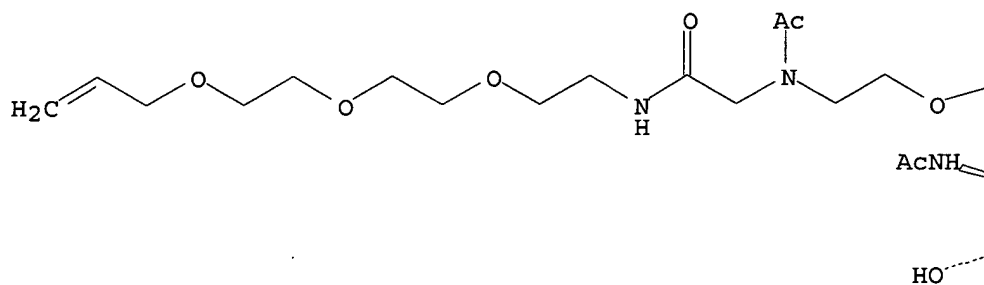
RN 403613-58-1 CAPLUS

CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-1-O-(N-acetyl-.alpha.-

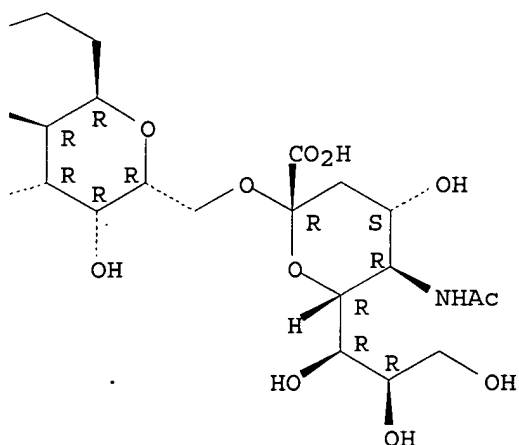
neuraminosyl)-8-O-(3-acetyl-5-oxo-9,12,15-trioxa-3,6-diazaoctadec-17-en-1-yl)-2,6-anhydro-5,7-dideoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



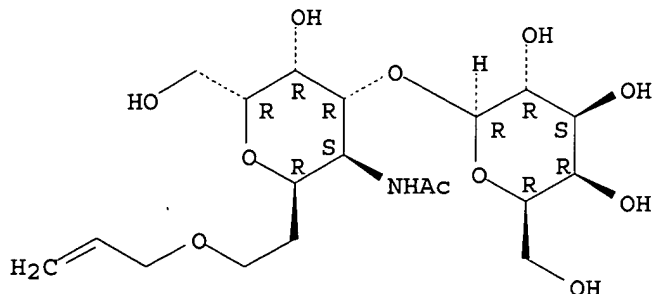
PAGE 1-B



RN 403613-61-6 CAPLUS

CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-2,6-anhydro-5,7-dideoxy-4-O-.beta.-D-galactopyranosyl-8-O-2-propenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



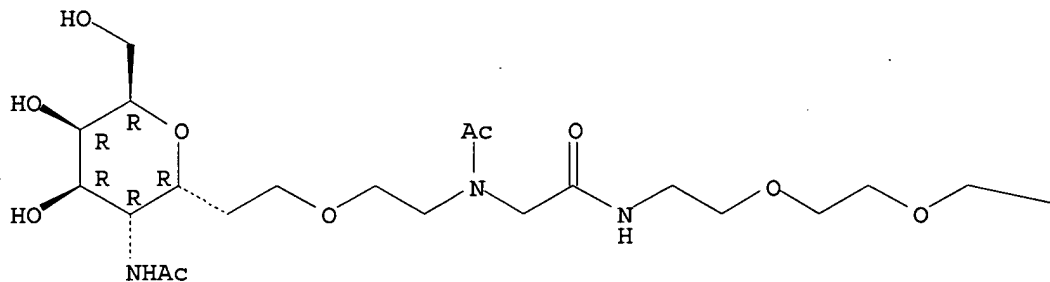
RN 403613-73-0 CAPLUS

CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-2,6-anhydro-5,7-dideoxy-8-O-(2-oxoethyl)- (9CI) (CA INDEX NAME)

CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-8-O-[2-[acetyl[2-oxo-2-[[2-(2-oxoethoxy)ethyl]amino]ethyl]amino]ethyl]-2,6-anhydro-5,7-dideoxy- (9CI)
(CA INDEX NAME)

CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-8-O-(3-acetyl-5,14-dioxo-9,12-dioxa-3,6-diazatetradec-1-yl)-2,6-anhydro-5,7-dideoxy- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

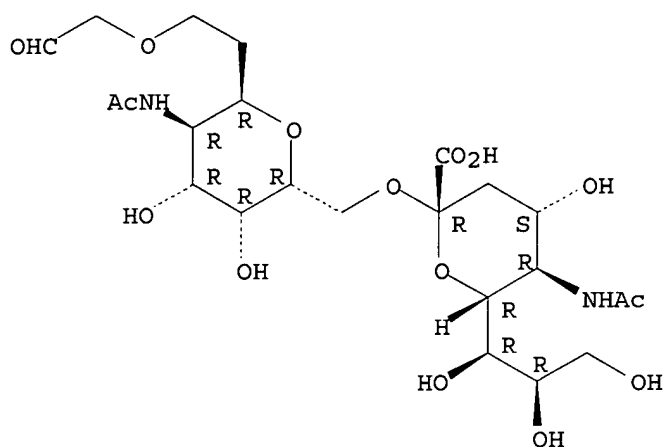
$$-\text{CHO}$$

—CHO

RN 403613-78-5 CAPLUS

CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-1-O-(N-acetyl-.alpha.-neuraminosyl)-2,6-anhydro-5,7-dideoxy-8-O-(2-oxoethyl)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

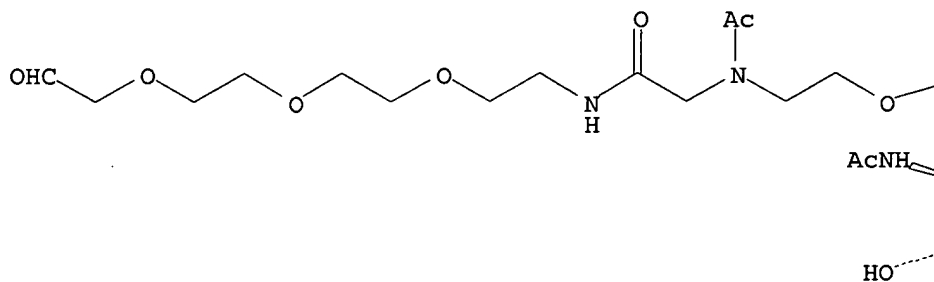


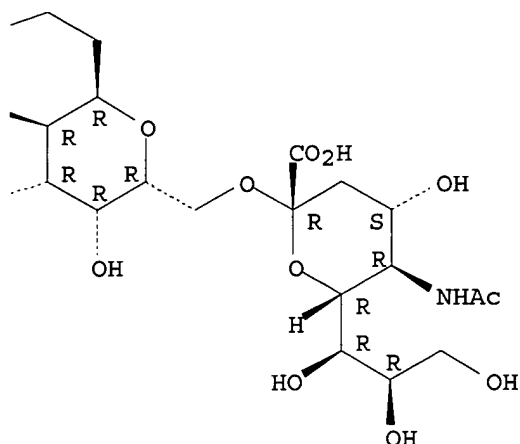
RN 403613-79-6 CAPLUS

CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-8-O-(3-acetyl-5,17-dioxo-9,12,15-trioxa-3,6-diazaheptadec-1-yl)-1-O-(N-acetyl-.alpha.-neuraminosyl)-2,6-anhydro-5,7-dideoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

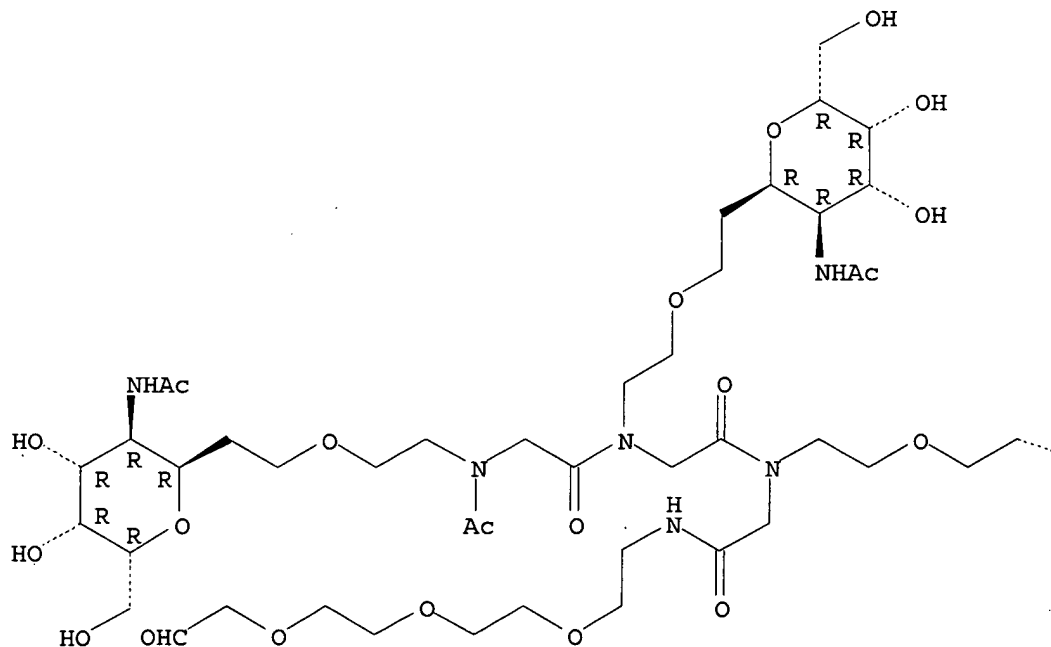


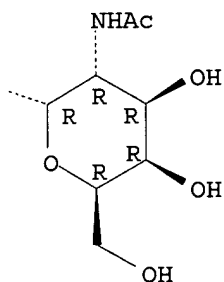


RN 403613-80-9 CAPLUS

CN Glycinamide, N-acetyl-N-[2-[5-(acetylamino)-2,6-anhydro-5,7-dideoxy-D-glycero-L-galacto-octitol-8-O-yl]ethyl]glycyl-N-[2-[5-(acetylamino)-2,6-anhydro-5,7-dideoxy-D-glycero-L-galacto-octitol-8-O-yl]ethyl]glycyl-N2-[2-[5-(acetylamino)-2,6-anhydro-5,7-dideoxy-D-glycero-L-galacto-octitol-8-O-yl]ethyl]-N-[2-[2-[2-(2-oxoethoxy)ethoxy]ethoxy]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.





IT 403613-56-9P 403613-68-3P 403613-69-4P
403613-71-8P 403613-72-9P

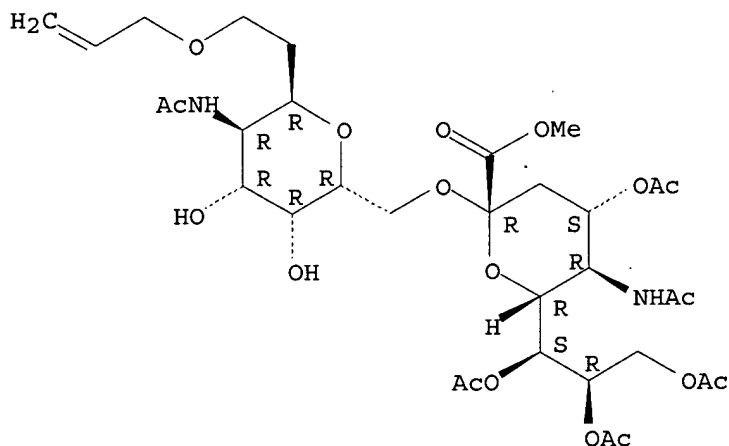
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(prepn. of non-mucine-type sialo-oligosaccharide monoclonal antibodies
as immunostimulants and antiviral and antitumor agents)

RN 403613-56-9 CAPLUS

CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-1-O-(N-acetyl-4,7,8,9-tetra-O-
acetyl-1-methyl-.alpha.-neuraminosyl)-2,6-anhydro-5,7-dideoxy-8-O-2-
propenyl- (9CI) (CA INDEX NAME)

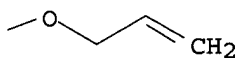
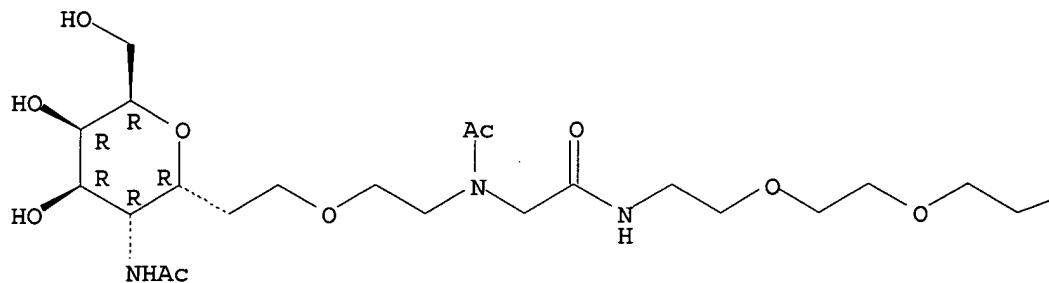
Absolute stereochemistry.



RN 403613-68-3 CAPLUS

CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-8-O-(3-acetyl-5-oxo-9,12,15-
trioxa-3,6-diazaoctadec-17-en-1-yl)-2,6-anhydro-5,7-dideoxy- (9CI) (CA
INDEX NAME)

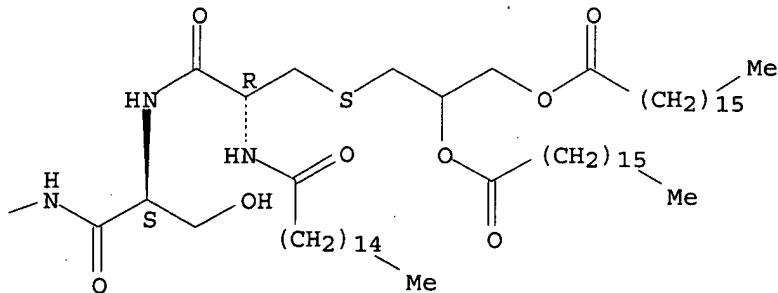
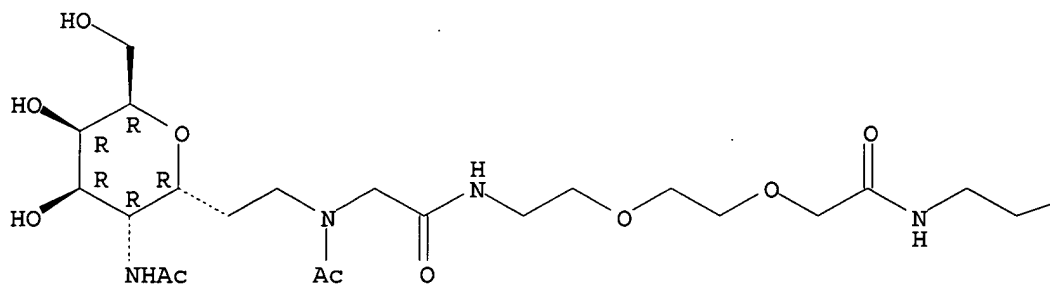
Absolute stereochemistry.



RN 403613-69-4 CAPLUS

CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-8-[acetyl[14-[[S-[2,3-bis[(1-oxoheptadecyl)oxy]propyl]-N-(1-oxohexadecyl)-L-cysteinyl-L-seryl]amino]-2,11-dioxo-6,9-dioxa-3,12-diazatetradec-1-yl]amino]-2,6-anhydro-5,7,8-trideoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

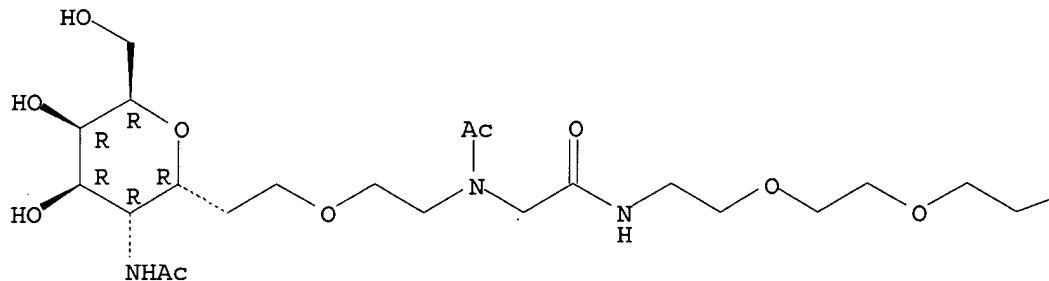


RN 403613-71-8 CAPLUS

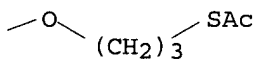
CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-8-O-(3-acetyl-5,20-dioxo-9,12,15-trioxa-19-thia-3,6-diazaheneicos-1-yl)-2,6-anhydro-5,7-dideoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

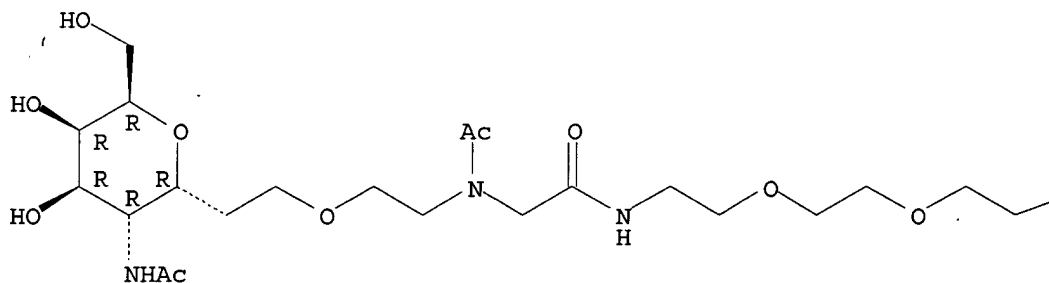


RN 403613-72-9 CAPLUS

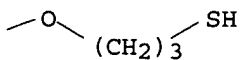
CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-8-O-(3-acetyl-18-mercapto-5-oxo-9,12,15-trioxa-3,6-diazaoctadec-1-yl)-2,6-anhydro-5,7-dideoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

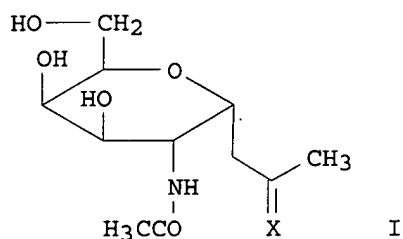
PAGE 1-A



PAGE 1-B



L4 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 2002:170743 CAPLUS
 DOCUMENT NUMBER: 137:79209
 TITLE: Novel Tn antigen-containing neoglycopeptides:
 synthesis and evaluation as anti tumor vaccines
 AUTHOR(S): Cipolla, Laura; Rescigno, Maria; Leone, Antonella;
 Peri, Francesco; La Ferla, Barbara; Nicotra, Francesco
 CORPORATE SOURCE: Department of Biotechnology and Biosciences,
 Universita degli Studi di Milano-Bicocca, Milan,
 20126, Italy
 SOURCE: Bioorganic & Medicinal Chemistry (2002), 10(5),
 1639-1646
 CODEN: BMECEP; ISSN: 0968-0896
 PUBLISHER: Elsevier Science Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 137:79209
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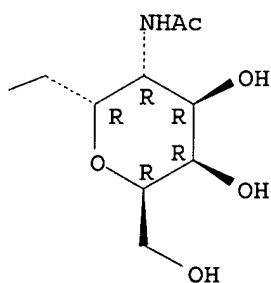
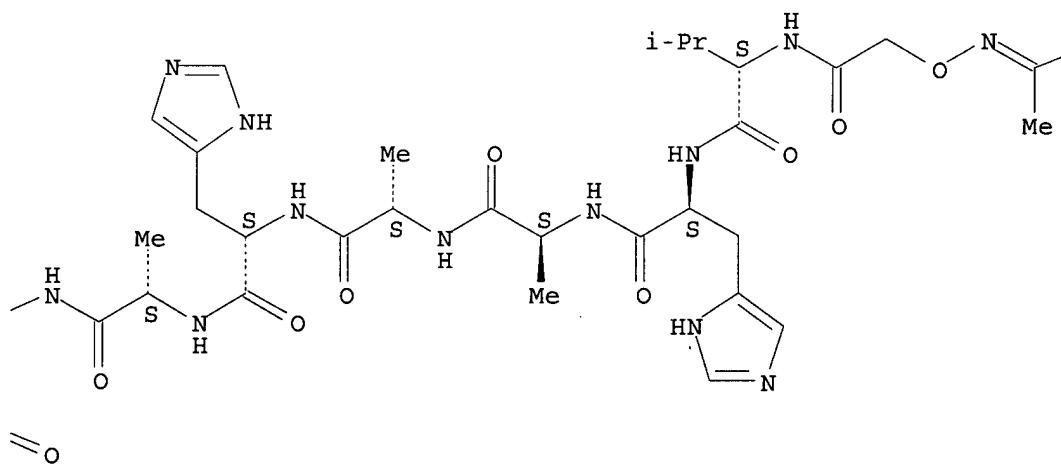
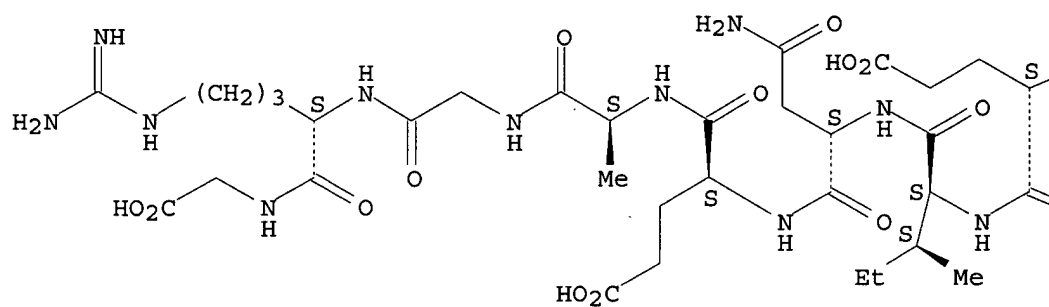
AB The fully unprotected .alpha.-C-glycosyl analog of N-acetylgalactosamine (I; X = O) was conjugated by a non-natural oxime bond to the segment peptides 328-340OVA and 327-339OVA, affording neoglycopeptides R-CH2C(O)-peptide-OH [II; R = I, X = N-, peptide = VHAAHAEINEAGRG: III; R = I, X = N-, peptide = AVHAAHAEINEAG: IV; R = I, X = N-, peptide = Lys(R-CH2C(O))-AVHAAHAEINEAG], having one or two sugar units, resp. The three neoglycopeptides were tested in vitro in an antigen presentation assay as antitumor vaccines. Neoglycopeptides II-IV could be presented to and recognized by the T cell receptor; neoglycopeptide IV, bearing two B-epitopes, was presented to the TCR with higher efficiency, compared to neoglycopeptide III, having only one B-epitope.

IT 345201-54-9P 439901-97-0P 439901-99-2P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (prepn. and biol. evaluation of Tn- antigen-contg. neoglycopeptides as anti tumor vaccines)

RN 345201-54-9 CAPLUS

CN Glycine, N-[[[5-(acetylamino)-2,6-anhydro-5,7,8,9-tetradecoxy-D-glycero-L-galacto-nonitol-8-ylidene]amino]oxy]acetyl]-L-valyl-L-histidyl-L-alanyl-L-alanyl-L-histidyl-L-alanyl-L-.alpha.-glutamyl-L-isoleucyl-L-asparaginyl-L-.alpha.-glutamyl-L-alanylglycyl-L-arginyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.

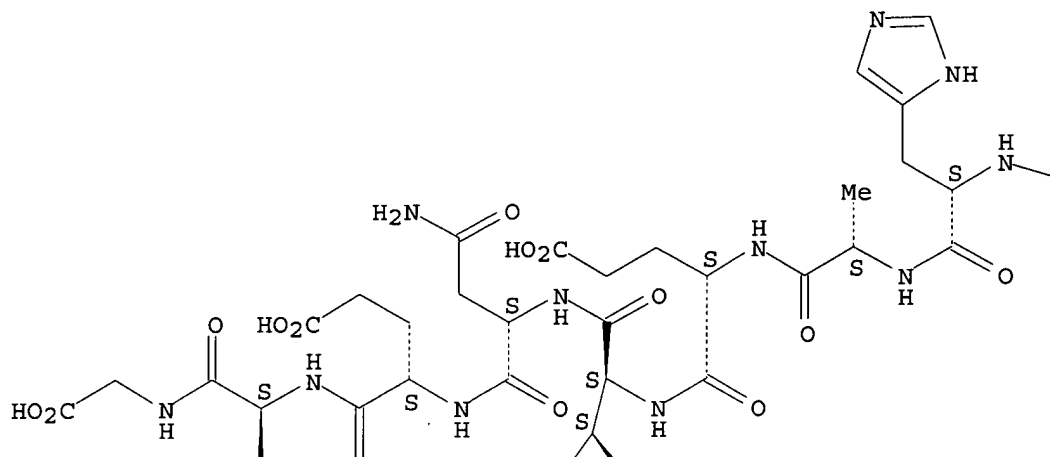


RN 439901-97-0 CAPLUS

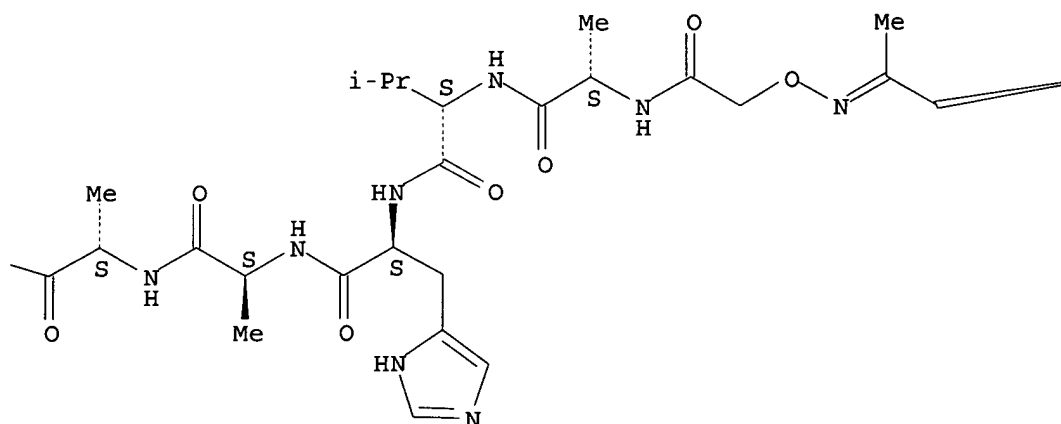
CN Glycine, N-[[[5-(acetylamino)-2,6-anhydro-5,7,8,9-tetradecoxy-D-glycero-L-galacto-nonitol-8-ylidene]amino]oxy]acetyl]-L-alanyl-L-valyl-L-histidyl-L-alanyl-L-alanyl-L-histidyl-L-alanyl-L-.alpha.-glutamyl-L-isoleucyl-L-asparaginyl-L-.alpha.-glutamyl-L-alanyl- (9CI) (CA INDEX NAME)

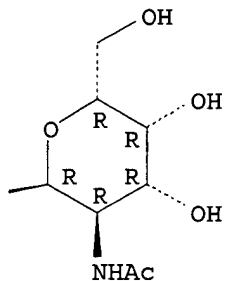
Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A



PAGE 1-B

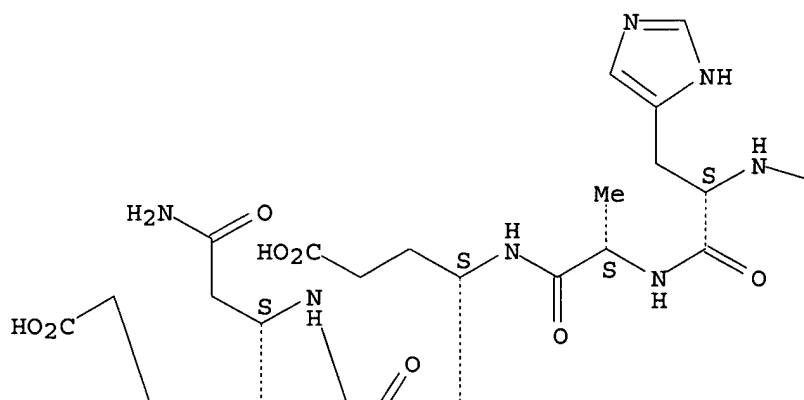




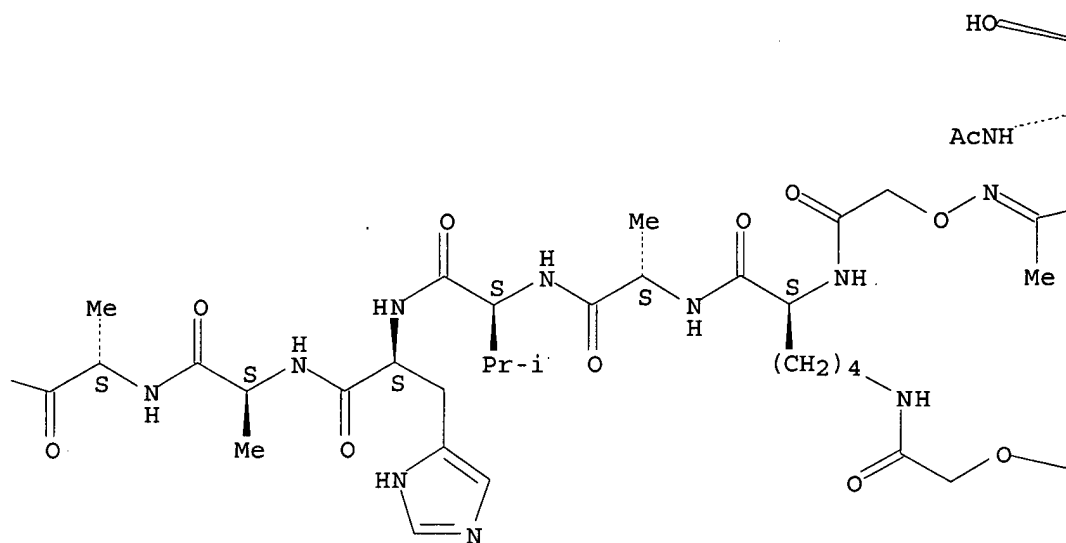
RN 439901-99-2 CAPLUS

CN Glycine, N2,N6-bis[[[5-(acetylamino)-2,6-anhydro-5,7,8,9-tetradeoxy-D-glycero-L-galacto-nonitol-8-ylidene]amino]oxy]acetyl]-L-lysyl-L-alanyl-L-valyl-L-histidyl-L-alanyl-L-alanyl-L-histidyl-L-alanyl-L- α -glutamyl-L-isoleucyl-L-asparaginyll-L- α -glutamyl-L-alanyl- (9CI) (CA INDEX NAME)

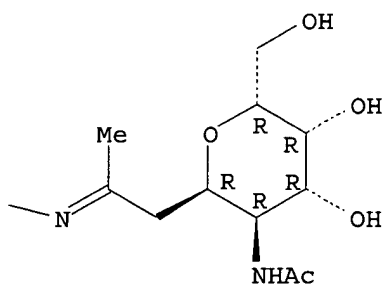
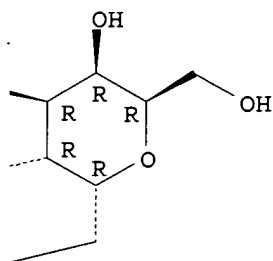
Absolute stereochemistry.
Double bond geometry unknown.



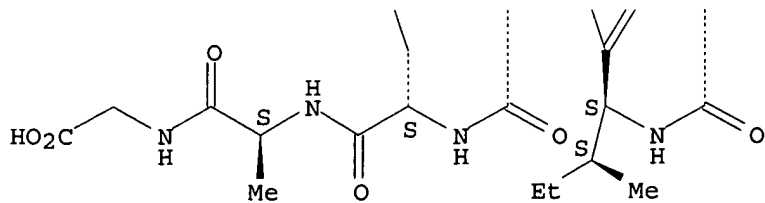
PAGE 1-B



PAGE 1-C

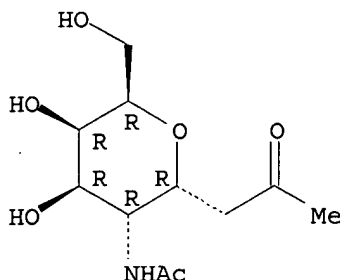


PAGE 2-A



IT 271246-07-2
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. and biol. evaluation of Tn- antigen-contg. neoglycopeptides as
 anti tumor vaccines)
 RN 271246-07-2 CAPLUS
 CN D-glycero-L-gluco-2-Nonulose, 5-(acetylamino)-4,8-anhydro-1,3,5-trideoxy-
 (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 88 THERE ARE 88 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

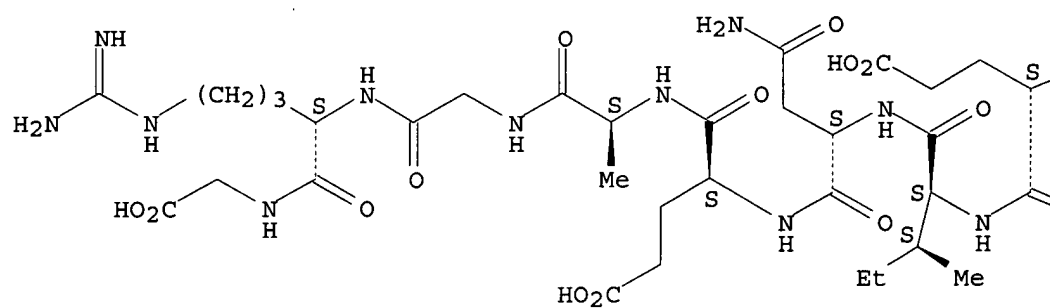
L4 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 2001:260583 CAPLUS
 DOCUMENT NUMBER: 135:44926
 TITLE: Synthesis and Biological Evaluation of an Anticancer
 Vaccine Containing the C-Glycoside Analogue of the Tn
 Epitope
 AUTHOR(S): Peri, Francesco; Cipolla, Laura; Rescigno, Maria; La
 Ferla, Barbara; Nicotra, Francesco
 CORPORATE SOURCE: Department of Biotechnology and Biosciences,
 University of Milano-Bicocca, Milan, I-20126, Italy
 SOURCE: Bioconjugate Chemistry (2001), 12(3), 325-328
 CODEN: BCCHES; ISSN: 1043-1802
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB The C-saccharide analog of the GalNAc (Tn epitope) has been covalently
 linked to the T cell epitope peptide 328-340OVA using a chemoselective
 convergent synthetic approach. In this way, a non-hydrolyzable synthetic
 vaccine was obtained composed by a B epitope conjugated to a T cell
 epitope. This compd. was tested in a proliferation assay with spleen
 cells from DO11.10 mice. The mol. was recognized by transgenic T cells
 although at a slightly lower efficiency if compared with the ref. peptide
 OVA. An addnl. expt. with dendritic cells fixed with glutaraldehyde shows
 that the glycopeptide can bind to extracellular MHC mols. without need of
 internalization and processing and that the C-glycoside part does not
 interfere with TCR recognition. These observations constitute an
 important starting point for the use of this mol. as vaccine against the
 Tn-expressing TA3-Ha mouse mammary carcinoma.

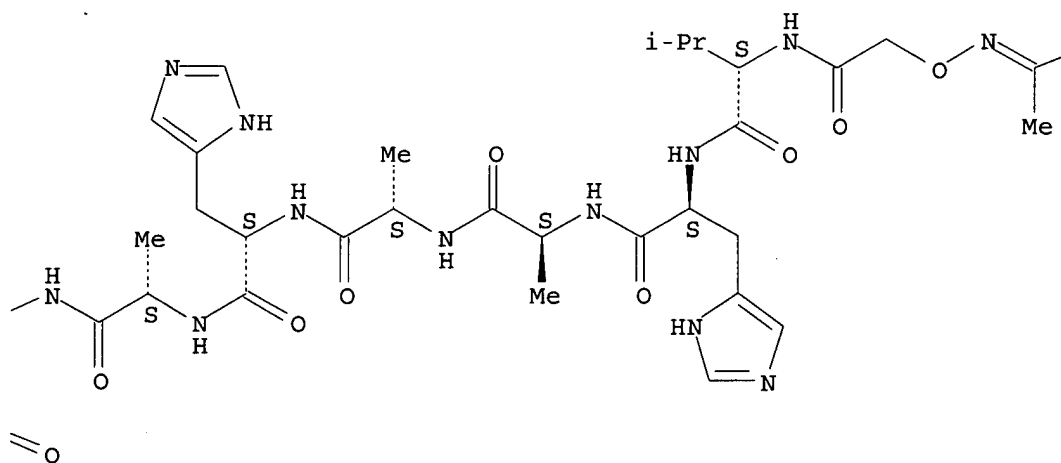
IT 345201-54-9P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological
 study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
 BIOL (Biological study); PREP (Preparation); USES (Uses)
 (synthesis and biol. evaluation of an anticancer vaccine contg. the
 C-Glycoside analog of the Tn epitope)
 RN 345201-54-9 CAPLUS
 CN Glycine, N-[[[5-(acetylamino)-2,6-anhydro-5,7,8,9-tetradecoxy-D-glycero-L-
 galacto-nonitol-8-ylidene]amino]oxy]acetyl]-L-valyl-L-histidyl-L-alanyl-L-
 alanyl-L-histidyl-L-alanyl-L-.alpha.-glutamyl-L-isoleucyl-L-asparaginy-L-
 .alpha.-glutamyl-L-alanylglycyl-L-arginyl- (9CI) (CA INDEX NAME)

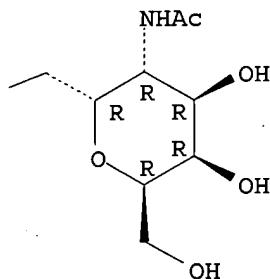
Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A



PAGE 1-B





IT 271246-07-2

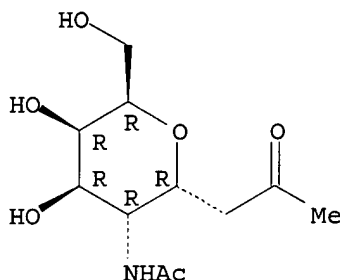
RL: RCT (Reactant); RACT (Reactant or reagent)

(synthesis and biol. evaluation of an anticancer vaccine contg. the C-Glycoside analog of the Tn epitope)

RN 271246-07-2 CAPLUS

CN D-glycero-L-glucosyl-2-Nonulose, 5-(acetylamino)-4,8-anhydro-1,3,5-trideoxy-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT:

17

THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2000:792850 CAPLUS

DOCUMENT NUMBER: 134:101106

TITLE: Radical-Mediated Synthesis of .alpha.-C-Glycosides Based on N-Acyl Galactosamine

AUTHOR(S): SanMartin, Raul; Tavassoli, Bahareh; Walsh, Kenneth E.; Walter, Daryl S.; Gallagher, Timothy

CORPORATE SOURCE: School of Chemistry, University of Bristol, Bristol, BS8 1TS, UK

SOURCE: Organic Letters (2000), 2(25), 4051-4054

CODEN: ORLEF7; ISSN: 1523-7060

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 134:101106

AB C-Glycosides of N-acyl 2-amino-2-deoxygalactose (acyl = MeCO, CF₃CO, t-BuOCO) are available in a stereoselective manner by trapping of an anomeric radical with an activated alkene. Using anomeric selenides, radical generation and trapping is carried out under conditions that avoid competitive redn., and this chem. has been applied to the synthesis of the novel C-glycoside analog of O-benzyl .alpha.-D-GalNAc.

IT 317816-97-0P

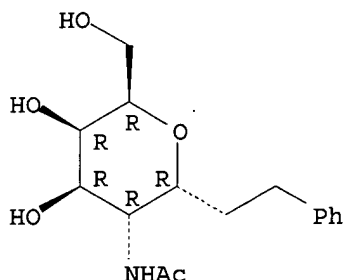
RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. of .alpha.-C-glycosides similar to N-acyl galactosamine via a radical mediated stereoselective glycosylation)

RN 317816-97-0 CAPLUS

CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-2,6-anhydro-5,7,8-trideoxy-8-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 55 THERE ARE 55 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2000:184011 CAPLUS

DOCUMENT NUMBER: 133:4858

TITLE: Stereoselective synthesis of .alpha.-C-glycosides of N-acetylgalactosamine

AUTHOR(S): Cipolla, Laura; La Ferla, Barbara; Lay, Luigi; Peri, Francesco; Nicotra, Francesco

CORPORATE SOURCE: Dipartimento di Biotecnologie e Bioscienze, Dipartimento di Biotecnologie e Bioscienze, Universita degli Studi di Milano-Bicocca, Milan, 20126, Italy

SOURCE: Tetrahedron: Asymmetry (2000), 11(1), 295-303

CODEN: TASYE3; ISSN: 0957-4166

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 133:4858

AB Attempts to synthesize .alpha.-C-glycosides of N-acetylgalactosamine by selective deprotection at C-2' of allyl .alpha.-C-galactoside and subsequent amination failed, but opened the way to .alpha.-C-talopyranosides. The synthesis of .alpha.-C-glycosides of N-acetylgalactosamine was performed from allyl .alpha.-C-glucopyranoside, which was regioselectively deprotected, stereoselectively aminated at C-2', and finally epimerized at C-4'.

IT 271246-14-1P

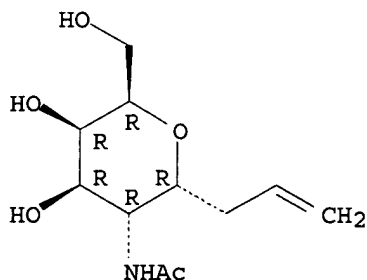
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

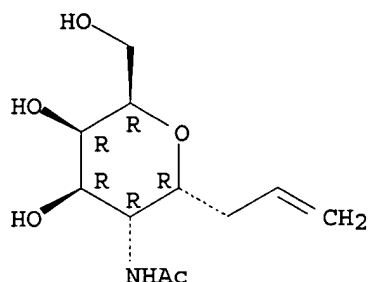
(prepn. and conversion of allyl function to Me ketone; stereoselective synthesis of .alpha.-C-glycosides of N-acetylgalactosamine)

RN 271246-14-1 CAPLUS

CN D-glycero-L-galacto-Non-8-enitol, 5-(acetylamino)-2,6-anhydro-5,7,8,9-tetradecoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.





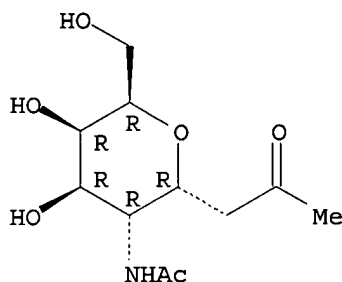
IT 271246-07-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(stereoselective synthesis of .alpha.-C-glycosides of
N-acetylgalactosamine)

RN 271246-07-2 CAPLUS

CN D-glycero-L-gluco-2-Nonulose, 5-(acetilylamino)-4,8-anhydro-1,3,5-trideoxy-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1999:792651 CAPLUS

DOCUMENT NUMBER: 132:208073

TITLE: Synthesis of Novel Donor Mimetics of UDP-Gal,
UDP-GlcNAc, and UDP-GalNAc as Potential Transferase
Inhibitors

AUTHOR(S): Schaefer, Andreas; Thiem, Joachim

CORPORATE SOURCE: Institut fuer Organische Chemie, Universitaet Hamburg,
Hamburg, D-20146, Germany

SOURCE: Journal of Organic Chemistry (2000), 65(1), 24-29
CODEN: JOCEAH; ISSN: 0022-3263

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

AB For the enzymic transfer of galactose, N-acetylglucosamine, and
N-acetylgalactosamine, UDP-Gal, UDP-GlcNAc, and UDP-GalNAc are employed,
and UDP serves as a feedback inhibitor. In this paper the synthesis of
the novel UDP-sugar analogs as potential transferase inhibitors is
described. UDP-sugar analogs feature C-glycosidic hydroxymethylene
linkages between the sugar and nucleoside moieties in contrast to the
anomeric oxygens in the natural derivs.

IT 260551-16-4P

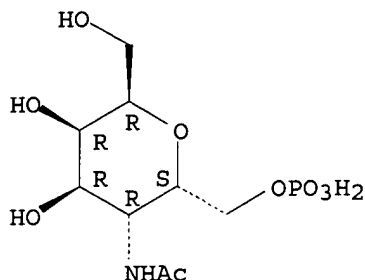
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(synthesis of donor mimetics of UDP-Gal, UDP-GlcNAc, and UDP-GalNAc as
potential transferase inhibitors)

RN 260551-16-4 CAPLUS

CN D-glycero-L-galacto-Heptitol, 5-(acetylamino)-2,6-anhydro-5-deoxy-,
7-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



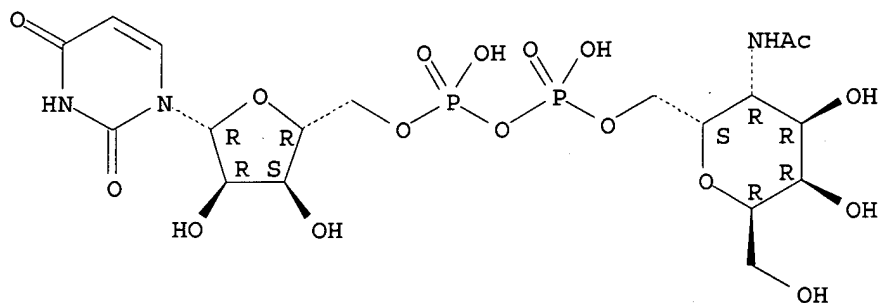
IT 260551-04-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis of donor mimetics of UDP-Gal, UDP-GlcNAc, and UDP-GalNAc as
potential transferase inhibitors)

RN 260551-04-0 CAPLUS

CN Uridine 5'-(trihydrogen diphosphate), P'.fwdarw.7-ester with
5-(acetylamino)-2,6-anhydro-5-deoxy-D-glycero-L-galacto-heptitol (9CI)
(CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1997:338209 CAPLUS

DOCUMENT NUMBER: 127:34434

TITLE: Radical mediated synthesis of N-acetyl-D-galactosamine
containing C-disaccharides via a temporary
phosphoramidic connection

AUTHOR(S): Rubinstenn, Gilles; Esnault, Jacques; Mallet,
Jean-Maurice; Sinay, Pierre

CORPORATE SOURCE: Ecole Normale Supérieure, Département de Chimie, URA
1686, Paris, 75231, Fr.

SOURCE: Tetrahedron: Asymmetry (1997), 8(8), 1327-1336
CODEN: TASYE3; ISSN: 0957-4166

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 127:34434

AB The C-disaccharide { .alpha.-D-GalNAc-C-(1.fwdarw.4)-.beta.-D-Glc-OMe } and
its interglycosidic .beta. anomer were synthesized by radical coupling of
Ph 2-amino-3,4,6-tri-O-benzyl-2-deoxy-1-seleno-.alpha.-D-galactopyranoside
onto Me 2,6-di-O-benzyl-4-deoxy-4-C-methylene-.beta.-D-xylo-

hexopyranoside, which are temporarily connected through a phosphoramido tether. A similar reaction was performed with Me 2,3-di-O-benzyl-4-deoxy-4-C-methylene-.alpha.-D-xylo-hexopyranoside to produce the two closely related .alpha.-OMe C-disaccharides.

IT 190782-15-1P

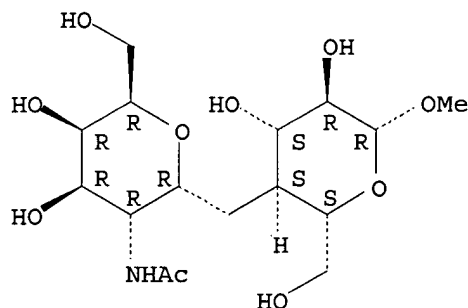
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(radical mediated prepn. of galactosamine contg. C-disaccharides via a temporary phosphoramidic connection)

RN 190782-15-1 CAPLUS

CN .beta.-D-Glucopyranoside, methyl 4-[[2-(acetylamino)-2-deoxy-.alpha.-D-galactopyranosyl]methyl]-4-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



IT 190782-12-8P

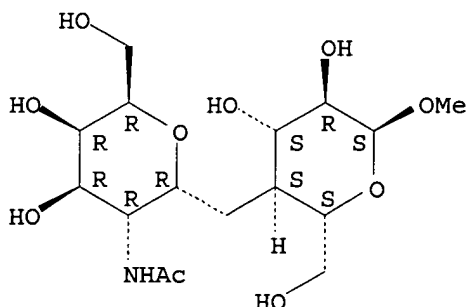
RL: SPN (Synthetic preparation); PREP (Preparation)

(radical mediated prepn. of galactosamine contg. C-disaccharides via a temporary phosphoramidic connection)

RN 190782-12-8 CAPLUS

CN .alpha.-D-Glucopyranoside, methyl 4-[[2-(acetylamino)-2-deoxy-.alpha.-D-galactopyranosyl]methyl]-4-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



L4 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1995:112881 CAPLUS

DOCUMENT NUMBER: 122:161118

TITLE: Synthesis of .alpha.-C-glycopyranosides of D-galactosamine and D-glucosamine via iodocyclization of corresponding glycals and silver tetrafluoroborane-promoted alkynylation at the anomeric center

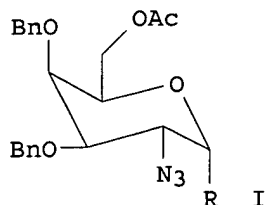
AUTHOR(S): Leteux, Christine; Veyrieres, Alain

CORPORATE SOURCE: UFR-Fac. Sci., Univ. Orleans, Orleans, 45067, Fr.

SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999)

(1994), (18), 2647-55
 CODEN: JCPRB4; ISSN: 0300-922X
 Journal
 English
 CASREACT 122:161118

DOCUMENT TYPE:
 LANGUAGE:
 OTHER SOURCE(S):
 GI



AB Iodointramol cyclocondensation of O-stannylated D-galactal followed by azidolysis gave 1,6-anhydro-2-azido-2-deoxy-.beta.-D-galactopyranose. Transformation into bromide I (R = Br) allowed coupling of various alkynyltributylstannanes in the presence of silver tetrafluoroboranuide (silver tetrafluoroborate), thus affording the corresponding .alpha.,.beta.-C-(D-galactopyranosyl)alkynes, e.g. I (R = C.tplbond.CPh).

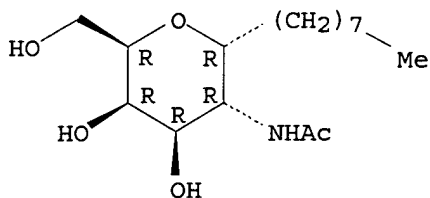
IT 161254-84-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (synthesis of acetamidodeoxy C-glycopyranosides via
 iodination-cycloaddn. of glycals and silver tetrafluoroborate promoted
 C-alkynylation)

RN 161254-84-8 CAPLUS

CN Acetamide, N-[tetrahydro-4,5-dihydroxy-6-(hydroxymethyl)-2-octyl-2H-pyran-3-yl]-, [2R-(2.alpha.,3.alpha.,4.beta.,5.beta.,6.beta.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> d his

(FILE 'HOME' ENTERED AT 11:20:33 ON 10 SEP 2003)

FILE 'REGISTRY' ENTERED AT 11:20:42 ON 10 SEP 2003

L1 STRUCTURE UPLOADED

L2 1 S L1 SSS SAM

L3 26 S L1 SSS FULL

FILE 'CAPLUS, MEDLINE' ENTERED AT 11:30:39 ON 10 SEP 2003

L4 8 S L3

FILE 'REGISTRY' ENTERED AT 11:31:18 ON 10 SEP 2003

L5 26 DUP REM L3 (0 DUPLICATES REMOVED)

FILE 'CAPLUS, MEDLINE' ENTERED AT 11:31:30 ON 10 SEP 2003

L8 ANSWER 1 OF 9 USPATFULL on STN

ACCESSION NUMBER: 2002:199115 USPATFULL
TITLE: Non-mucin type synthetic compounds or its carrier
conjugated compounds
INVENTOR(S): Tomiyama, Hiroshi, Sakaki-machi, JAPAN
Ueyama, Naoto, Ueda-shi, JAPAN
Yanagiya, Masahiro, Sakaki-machi, JAPAN
Ohkura, Yasufumi, Ueda-shi, JAPAN
PATENT ASSIGNEE(S): KOTOBUKI PHARMACEUTICAL CO., LTD., Nagano-ken, JAPAN
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002107224	A1	20020808
APPLICATION INFO.:	US 2001-925537	A1	20010810 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 2000-244567	20000811
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Leonard W. Sherman, Sherman & Shalloway, 413 N. Washington Street, Alexandria, VA, 22314	
NUMBER OF CLAIMS:	16	
EXEMPLARY CLAIM:	1	
LINE COUNT:	2325	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The purposes of this invention are preparation of the non-mucin type synthetic compounds-carrier conjugated compounds which are stable against enzymes, and which have the ability of specific reactivity to induce immune response for cancer and HIV.

A compound of the general formula (1), ##STR1##

wherein A represents OH or sialic acid and/or it's derivatives, and B represents OH or galactose and/or it's derivatives; T represents H or protecting groups of amine; M represents H or OH; X represents oxygen atom, --NH-- or S(O)_z (where z is 0, 1 or 2); Q is H or oxygen atom; V represents lower alkyl or H; W is straight or branched alkylene groups from 0 to 5; Z is straight or branched alkylene groups from 1 to 5; i, m, and t is 0 or 1;

non-mucin type synthetic compounds or it's carrier conjugated compounds, which have above mentioned compounds as a core structure of antigen.

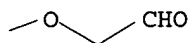
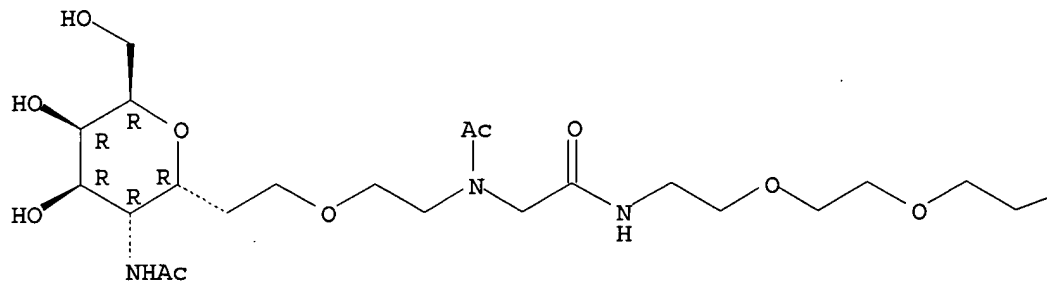
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 403613-70-7DP, reaction products with hemocyanin KLH
(prepn. of non-mucine-type sialo-oligosaccharide monoclonal antibodies as immunostimulants and antiviral and antitumor agents)

RN 403613-70-7 USPATFULL

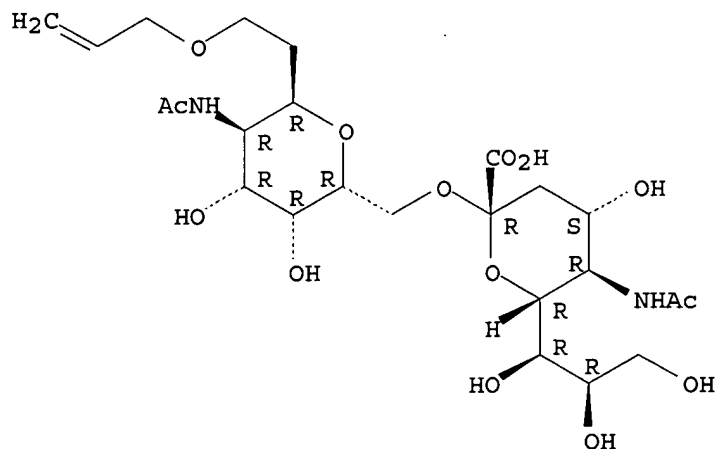
CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-8-O-(3-acetyl-5,17-dioxo-9,12,15-trioxa-3,6-diazaheptadec-1-yl)-2,6-anhydro-5,7-dideoxy- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.



IT 403613-57-0P 403613-58-1P 403613-61-6P
 403613-73-0DP, reaction products with hemocyanin KLH
 403613-74-1DP, reaction products with hemocyanin KLH
 403613-75-2DP, reaction products with hemocyanin KLH
 403613-78-5DP, reaction products with hemocyanin KLH
 403613-79-6DP, reaction products with hemocyanin KLH
 403613-80-9DP, reaction products with hemocyanin KLH
 (prepn. of non-mucine-type sialo-oligosaccharide monoclonal antibodies
 as immunostimulants and antiviral and antitumor agents)
 RN 403613-57-0 USPATFULL
 CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-1-O-(N-acetyl-.alpha.-
 neuraminosyl)-2,6-anhydro-5,7-dideoxy-8-O-2-propenyl- (9CI) (CA INDEX
 NAME)

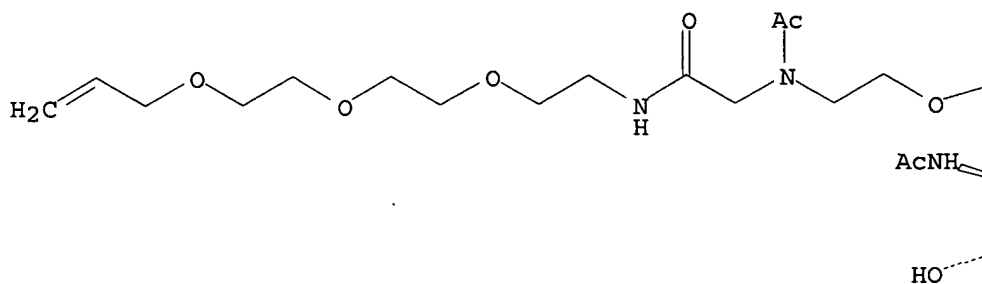
Absolute stereochemistry.



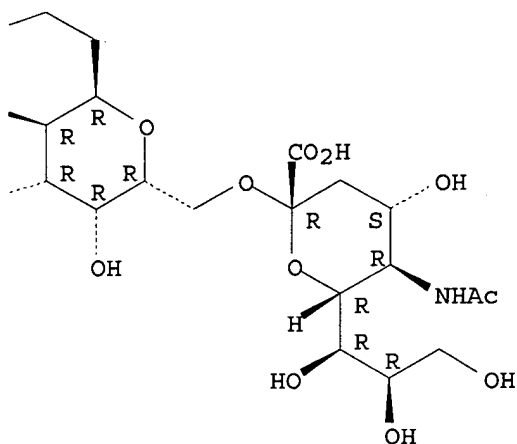
RN 403613-58-1 USPATFULL
 CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-1-O-(N-acetyl-.alpha.-
 neuraminosyl)-8-O-(3-acetyl-5-oxo-9,12,15-trioxa-3,6-diazaoctadec-17-en-
 1-yl)-2,6-anhydro-5,7-dideoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



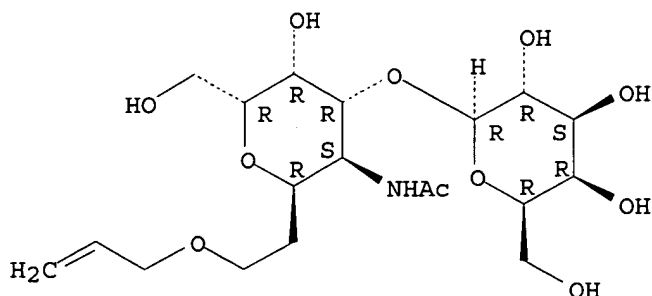
PAGE 1-B



RN 403613-61-6 USPATFULL

CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-2,6-anhydro-5,7-dideoxy-4-O-.beta.-D-galactopyranosyl-8-O-2-propenyl- (9CI) (CA INDEX NAME)

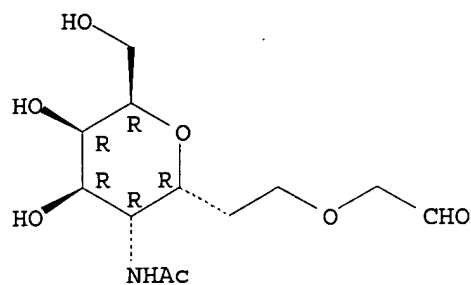
Absolute stereochemistry.



RN 403613-73-0 USPATFULL

CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-2,6-anhydro-5,7-dideoxy-8-O-(2-oxoethyl)- (9CI) (CA INDEX NAME)

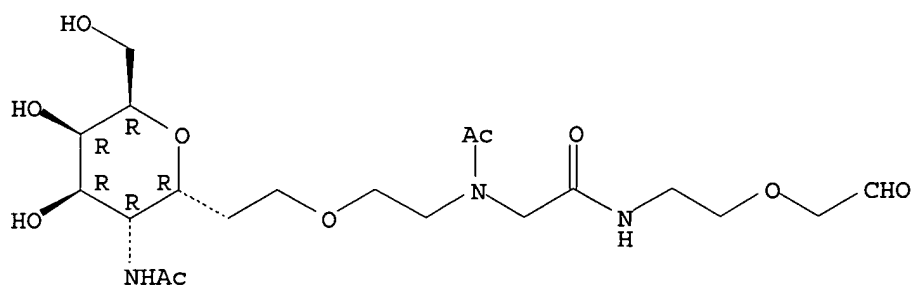
Absolute stereochemistry.



RN 403613-74-1 USPATFULL

CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-8-O-[2-[acetyl[2-oxo-2-[[2-(2-oxoethoxy)ethyl]amino]ethyl]amino]ethyl]-2,6-anhydro-5,7-dideoxy- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

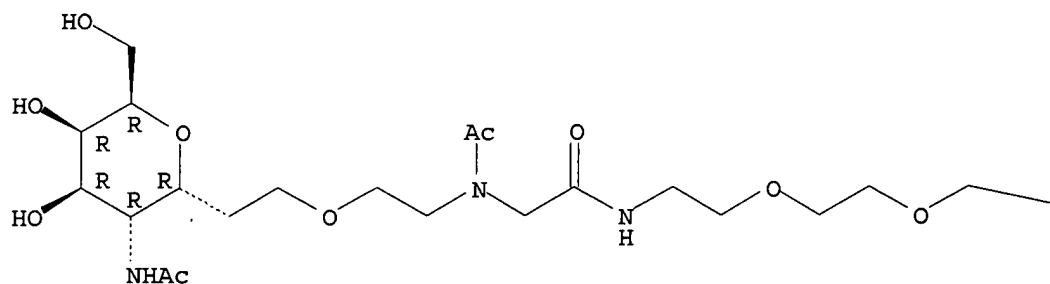


RN 403613-75-2 USPATFULL

CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-8-O-(3-acetyl-5,14-dioxo-9,12-dioxa-3,6-diazatetradec-1-yl)-2,6-anhydro-5,7-dideoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



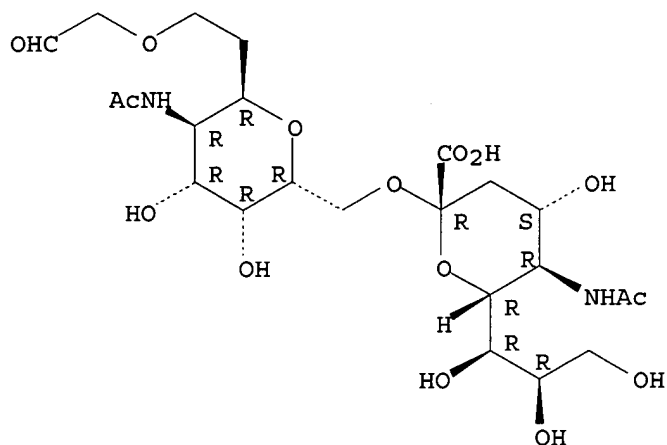
PAGE 1-B

— CHO

RN 403613-78-5 USPATFULL

CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-1-O-(N-acetyl-.alpha.-neuraminosyl)-2,6-anhydro-5,7-dideoxy-8-O-(2-oxoethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

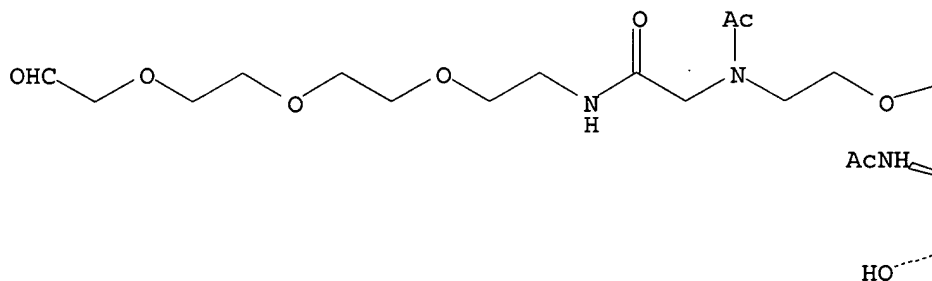


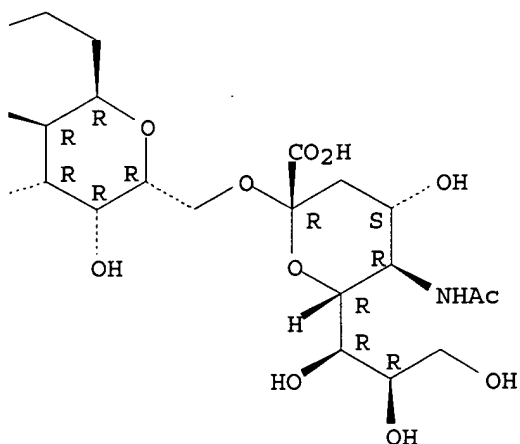
RN 403613-79-6 USPATFULL

CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-8-O-(3-acetyl-5,17-dioxo-9,12,15-trioxa-3,6-diazaheptadec-1-yl)-1-O-(N-acetyl-.alpha.-neuraminosyl)-2,6-anhydro-5,7-dideoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

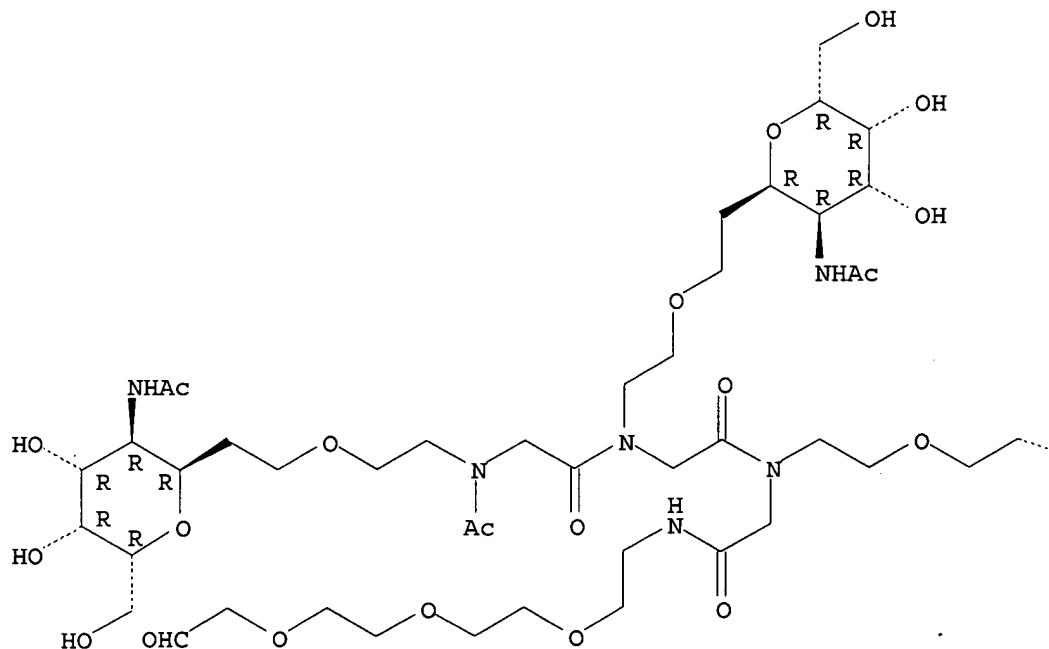


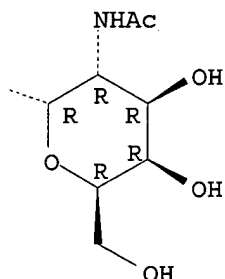


RN 403613-80-9 USPATFULL

CN Glycinamide, N-acetyl-N-[2-[5-(acetylamino)-2,6-anhydro-5,7-dideoxy-D-glycero-L-galacto-octitol-8-O-yl]ethyl]glycyl-N-[2-[5-(acetylamino)-2,6-anhydro-5,7-dideoxy-D-glycero-L-galacto-octitol-8-O-yl]ethyl]glycyl-N2-[2-[5-(acetylamino)-2,6-anhydro-5,7-dideoxy-D-glycero-L-galacto-octitol-8-O-yl]ethyl]-N-[2-[2-[2-(2-oxoethoxy)ethoxy]ethoxy]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.





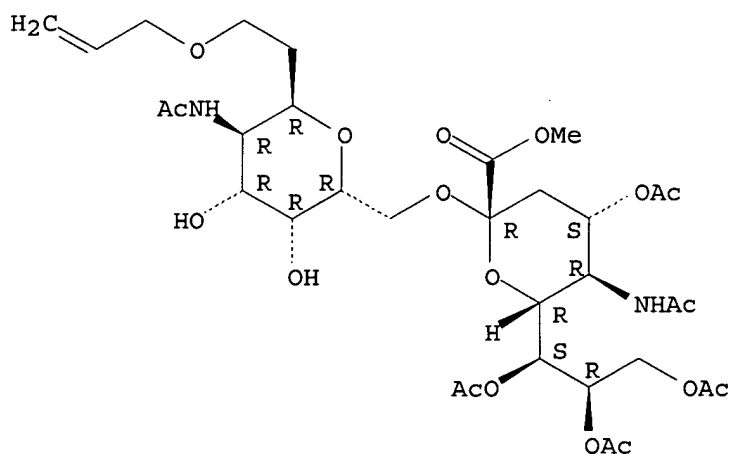
IT 403613-56-9P 403613-68-3P 403613-69-4P
403613-71-8P 403613-72-9P

(prepn. of non-mucine-type sialo-oligosaccharide monoclonal antibodies
as immunostimulants and antiviral and antitumor agents)

RN 403613-56-9 USPATFULL

CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-1-O-(N-acetyl-4,7,8,9-tetra-O-
acetyl-1-methyl-.alpha.-neuraminosyl)-2,6-anhydro-5,7-dideoxy-8-O-2-
propenyl- (9CI) (CA INDEX NAME)

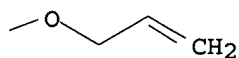
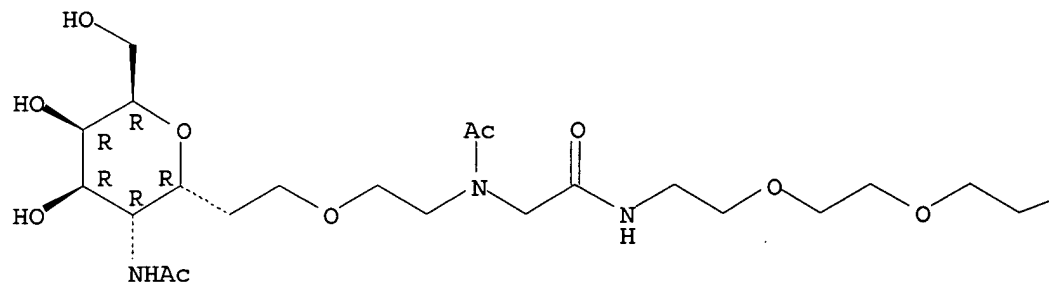
Absolute stereochemistry.



RN 403613-68-3 USPATFULL

CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-8-O-(3-acetyl-5-oxo-9,12,15-
trioxa-3,6-diazaoctadec-17-en-1-yl)-2,6-anhydro-5,7-dideoxy- (9CI) (CA
INDEX NAME)

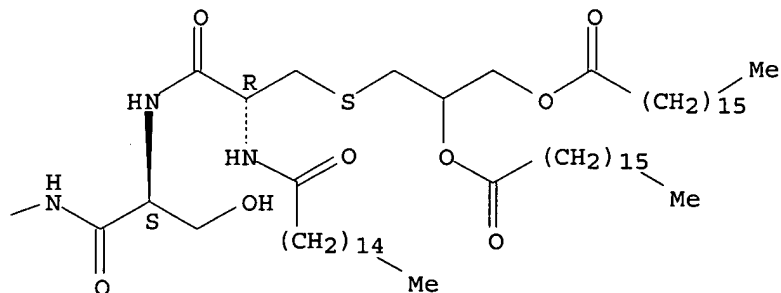
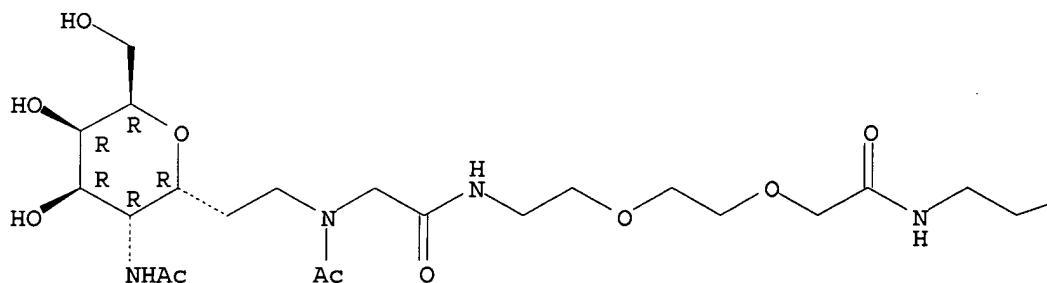
Absolute stereochemistry.



RN 403613-69-4 USPATFULL

CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-8-[acetyl[14-[[S-[2,3-bis[(1-oxoheptadecyl)oxy]propyl]-N-(1-oxohexadecyl)-L-cysteinyl-L-seryl]amino]-2,11-dioxo-6,9-dioxo-3,12-diazatetradec-1-yl]amino]-2,6-anhydro-5,7,8-trideoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

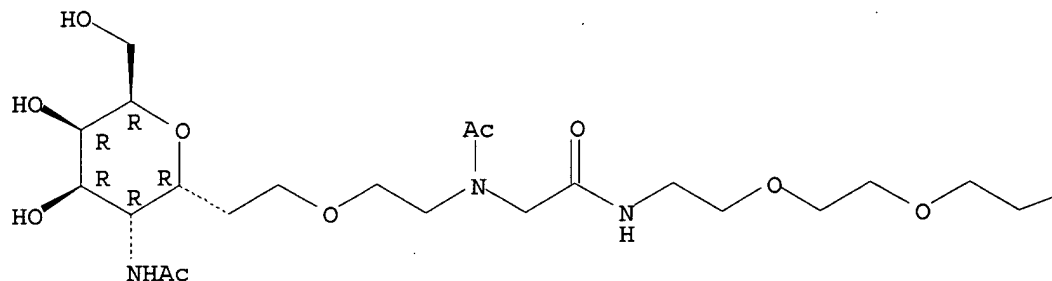


RN 403613-71-8 USPATFULL

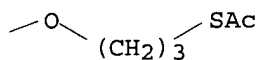
CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-8-O-(3-acetyl-5,20-dioxo-9,12,15-trioxa-19-thia-3,6-diazaheneicos-1-yl)-2,6-anhydro-5,7-dideoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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PAGE 1-B

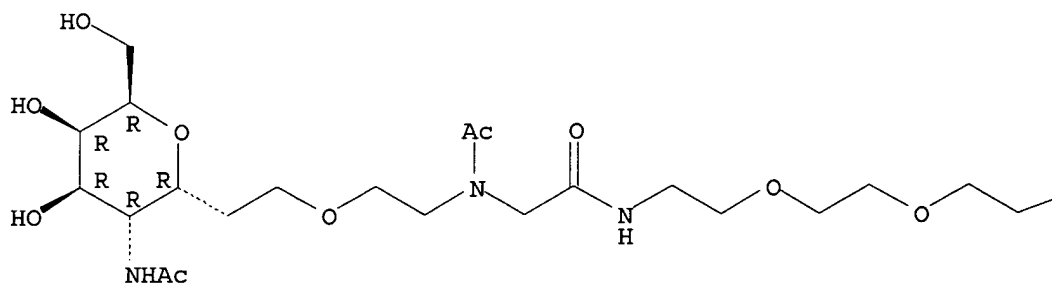


RN 403613-72-9 USPATFULL

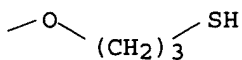
CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-8-O-(3-acetyl-18-mercapto-5-oxo-9,12,15-trioxa-3,6-diazaoctadec-1-yl)-2,6-anhydro-5,7-dideoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

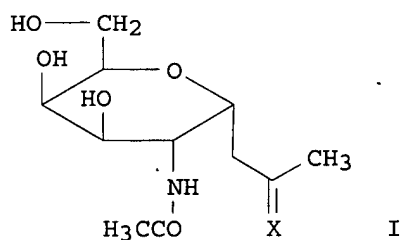
PAGE 1-A



PAGE 1-B



L8 ANSWER 2 OF 9 CA COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 137:79209 CA
 TITLE: Novel Tn antigen-containing neoglycopeptides:
 synthesis and evaluation as anti tumor vaccines
 AUTHOR(S): Cipolla, Laura; Rescigno, Maria; Leone, Antonella;
 Peri, Francesco; La Ferla, Barbara; Nicotra, Francesco
 CORPORATE SOURCE: Department of Biotechnology and Biosciences,
 Universita degli Studi di Milano-Bicocca, Milan,
 20126, Italy
 SOURCE: Bioorganic & Medicinal Chemistry (2002), 10(5),
 1639-1646
 CODEN: BMECEP; ISSN: 0968-0896
 PUBLISHER: Elsevier Science Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 137:79209
 GI



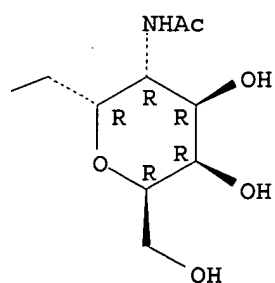
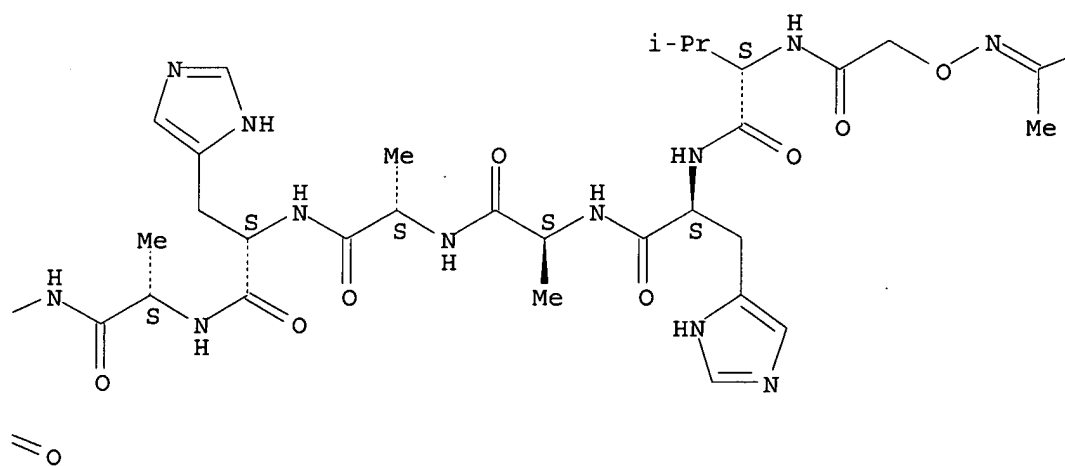
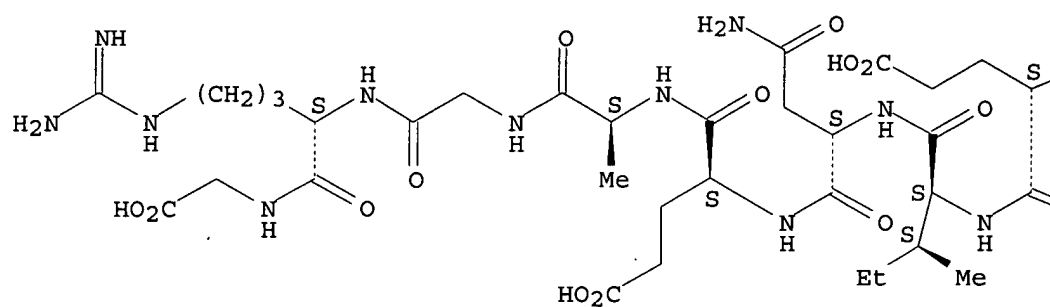
AB The fully unprotected .alpha.-C-glycosyl analog of N-acetylgalactosamine (I; X = O) was conjugated by a non-natural oxime bond to the segment peptides 328-340OVA and 327-339OVA, affording neoglycopeptides R-CH2C(O)-peptide-OH [II; R = I, X = N-, peptide = VHAAHAEINEAGRG: III; R = I, X = N-, peptide = AVHAAHAEINEAG: IV; R = I, X = N-, peptide = Lys(R-CH2C(O))-AVHAAHAEINEAG], having one or two sugar units, resp. The three neoglycopeptides were tested in vitro in an antigen presentation assay as antitumor vaccines. Neoglycopeptides II-IV could be presented to and recognized by the T cell receptor; neoglycopeptide IV, bearing two B-epitopes, was presented to the TCR with higher efficiency, compared to neoglycopeptide III, having only one B-epitope.

IT 345201-54-9P 439901-97-0P 439901-99-2P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (prepn. and biol. evaluation of Tn- antigen-contg. neoglycopeptides as anti tumor vaccines)

RN 345201-54-9 CA

CN Glycine, N-[[[5-(acetylamino)-2,6-anhydro-5,7,8,9-tetradecy-D-glycero-L-galacto-nonitol-8-ylidene]amino]oxy]acetyl]-L-valyl-L-histidyl-L-alanyl-L-alanyl-L-histidyl-L-alanyl-L-.alpha.-glutamyl-L-isoleucyl-L-asparaginyl-L-.alpha.-glutamyl-L-alanylglycyl-L-arginyl- (9CI) (CA INDEX NAME)

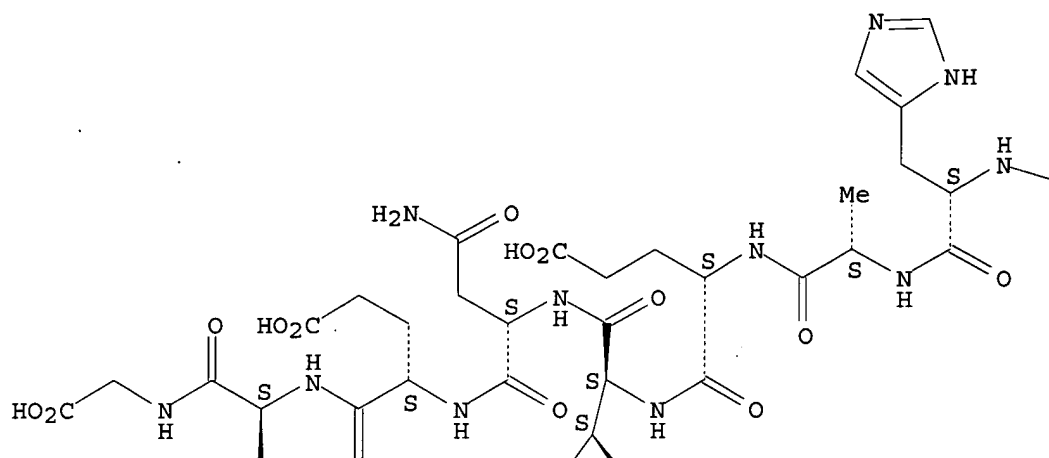
Absolute stereochemistry.
 Double bond geometry unknown.



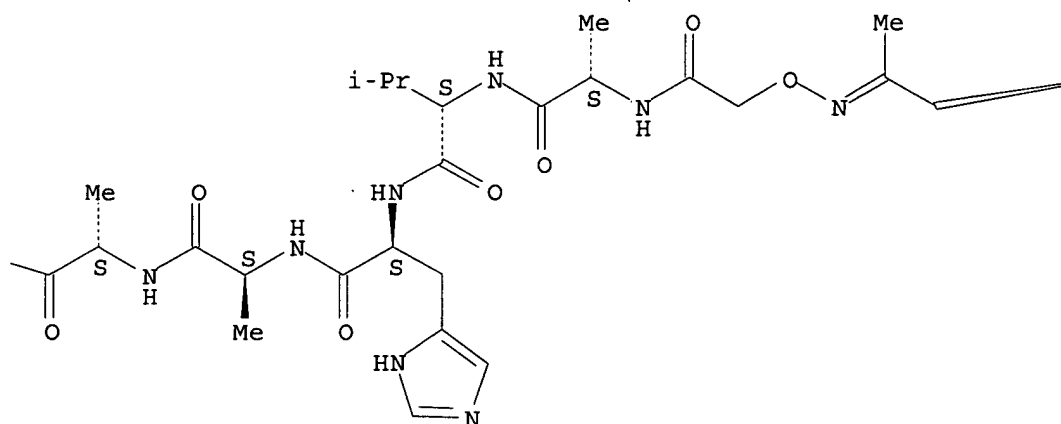
RN 439901-97-0 CA
 CN Glycine, N-[[[5-(acetylamino)-2,6-anhydro-5,7,8,9-tetradecoxy-D-glycero-L-galacto-nonitol-8-ylidene]amino]oxy]acetyl]-L-alanyl-L-valyl-L-histidyl-L-alanyl-L-alanyl-L-histidyl-L-alanyl-L-.alpha.-glutamyl-L-isoleucyl-L-asparaginyl-L-.alpha.-glutamyl-L-alanyl- (9CI) (CA INDEX NAME)

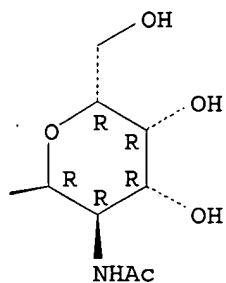
Absolute stereochemistry.
 Double bond geometry unknown.

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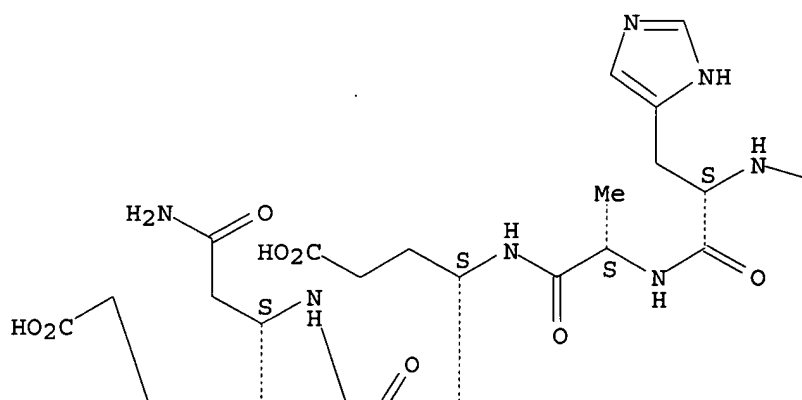
PAGE 1-B



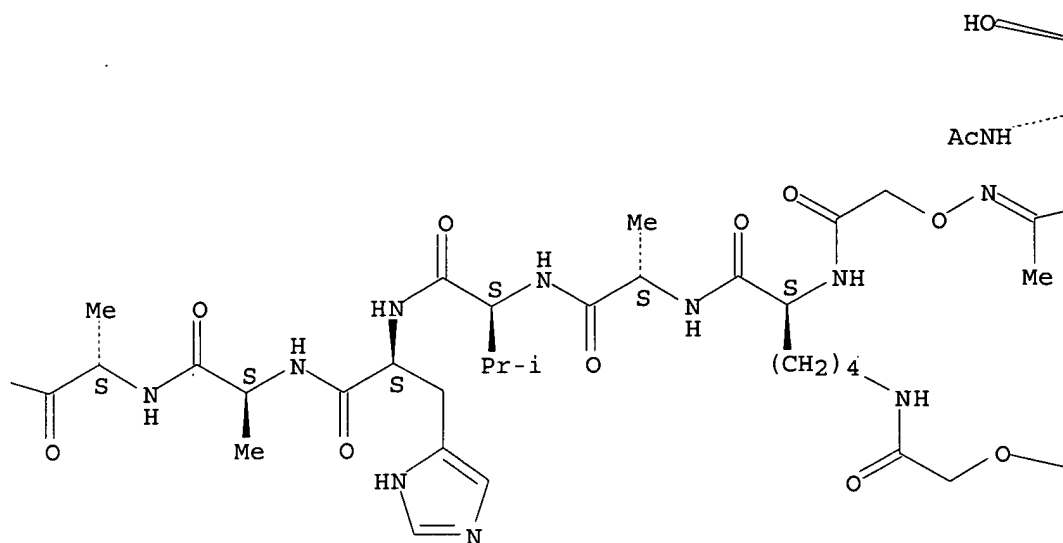


RN 439901-99-2 CA
 CN Glycine, N2,N6-bis[[[5-(acetylamino)-2,6-anhydro-5,7,8,9-tetradecoxy-D-glycero-L-galacto-nonitol-8-ylidene]amino]oxy]acetyl]-L-lysyl-L-alanyl-L-valyl-L-histidyl-L-alanyl-L-alanyl-L-histidyl-L-alanyl-L-.alpha.-glutamyl-L-isoleucyl-L-asparaginy-L-.alpha.-glutamyl-L-alanyl- (9CI) (CA INDEX NAME)

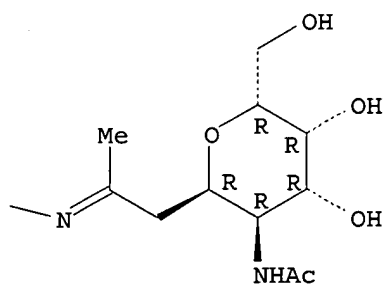
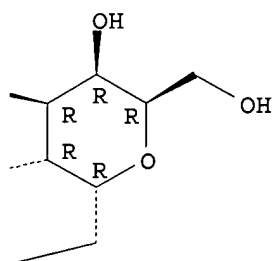
Absolute stereochemistry.
 Double bond geometry unknown.



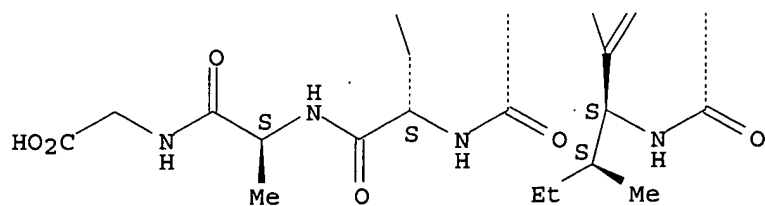
PAGE 1-B



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IT 271246-07-2

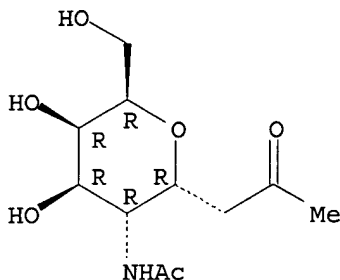
RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. and biol. evaluation of Tn- antigen-contg. neoglycopeptides as anti tumor vaccines)

RN 271246-07-2 CA

CN D-glycero-L-gluco-2-Nonulose, 5-(acetylamino)-4,8-anhydro-1,3,5-trideoxy-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 88 THERE ARE 88 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 9 CA COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 136:232498 CA

TITLE: Preparation of non-mucine-type sialo-oligosaccharide monoclonal antibodies as immunostimulants and antiviral and antitumor agents

INVENTOR(S): Tomiyama, Hiroshi; Ueyama, Naoto; Yanagiya, Masahiro; Ohkura, Yasufumi

PATENT ASSIGNEE(S): Kotobuki Pharmaceutical Co., Ltd., Japan

SOURCE: Fr. Demande, 90 pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

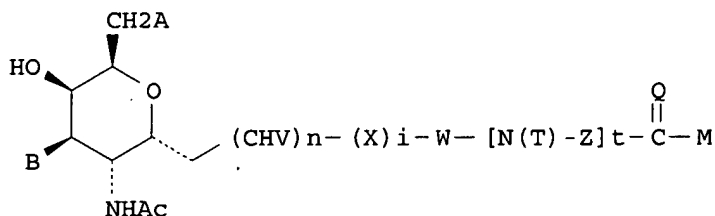
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2812814	A1	20020215	FR 2001-10714	20010810
JP 2002275091	A2	20020925	JP 2001-234804	20010802
DE 10138935	A1	20020321	DE 2001-10138935	20010808
US 2002107224	A1	20020808	US 2001-925537	20010810
CN 1341595	A	20020327	CN 2001-132836	20010811
GB 2368580	A1	20020508	GB 2001-19717	20010813
			JP 2000-244567	A 20000811

PRIORITY APPLN. INFO.:

OTHER SOURCE(S): MARPAT 136:232498

GI



I

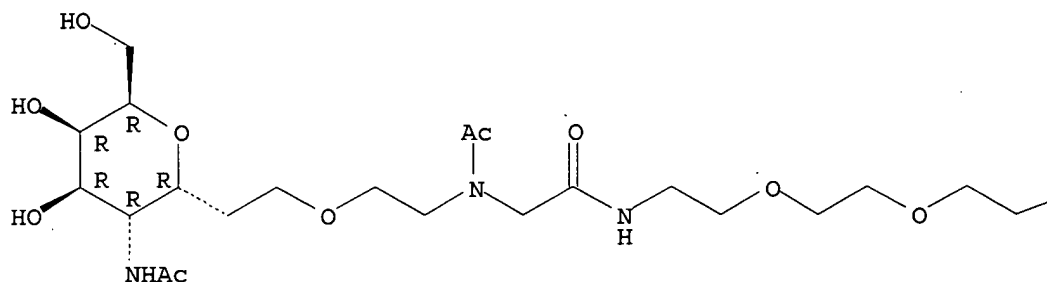
AB Sialo-oligosaccharides I wherein A is OH, sialic acid; B is galactose; T is H, amine; M is H, OH; X is O, NH, S, SO, SO₂; Q is H, O; V is H, alkyl; W is alkylidene; Z is alkylidene; i, m, and t are 0-1, were prepd. as immunostimulants and antiviral and antitumor agents. Thus, 2-(2-acetylamino-2-deoxy-.alpha.-D-galactopyrano-1-yl)-1-[2-(N-{[N-(2-{2-[2-(3-sulfenylpropoxy)ethoxy]ethoxy}ethyl)carbamoyl)methyl}acetylamino)ethoxy]ethane was prepd. and tested in mice for IgG and IgM antibodies as vaccine immunostimulant and antiviral and antitumor agent.

IT **403613-70-7DP**, reaction products with hemocyanin KLH
 RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (prepn. of non-mucine-type sialo-oligosaccharide monoclonal antibodies as immunostimulants and antiviral and antitumor agents)

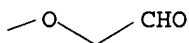
RN 403613-70-7 CA
 CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-8-O-(3-acetyl-5,17-dioxo-9,12,15-trioxa-3,6-diazaheptadec-1-yl)-2,6-anhydro-5,7-dideoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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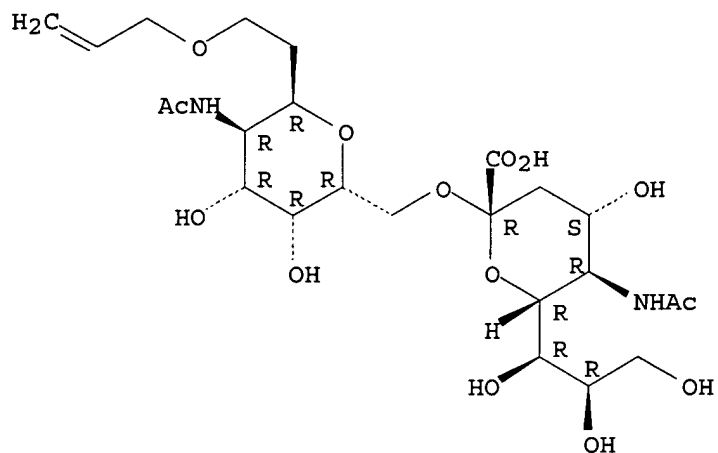
PAGE 1-B



IT **403613-57-0P 403613-58-1P 403613-61-6P**
403613-73-0DP, reaction products with hemocyanin KLH
403613-74-1DP, reaction products with hemocyanin KLH
403613-75-2DP, reaction products with hemocyanin KLH
403613-78-5DP, reaction products with hemocyanin KLH
403613-79-6DP, reaction products with hemocyanin KLH
403613-80-9DP, reaction products with hemocyanin KLH
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of non-mucine-type sialo-oligosaccharide monoclonal antibodies as immunostimulants and antiviral and antitumor agents)

RN 403613-57-0 CA
 CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-1-O-(N-acetyl-.alpha.-neuraminosyl)-2,6-anhydro-5,7-dideoxy-8-O-2-propenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

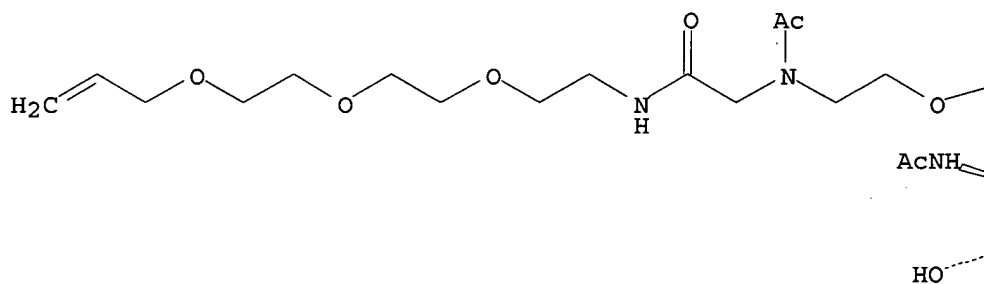


RN 403613-58-1 CA

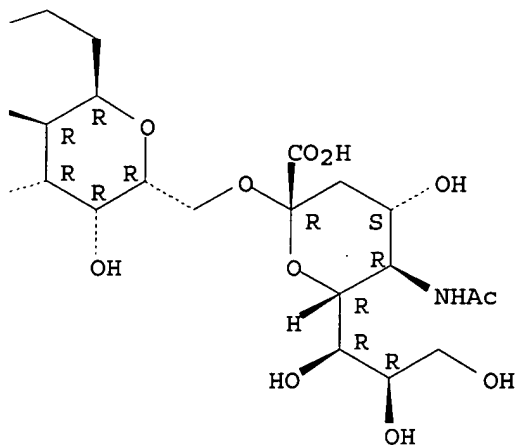
CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-1-O-(N-acetyl-.alpha.-neuraminosyl)-8-O-(3-acetyl-5-oxo-9,12,15-trioxa-3,6-diazaoctadec-17-en-1-yl)-2,6-anhydro-5,7-dideoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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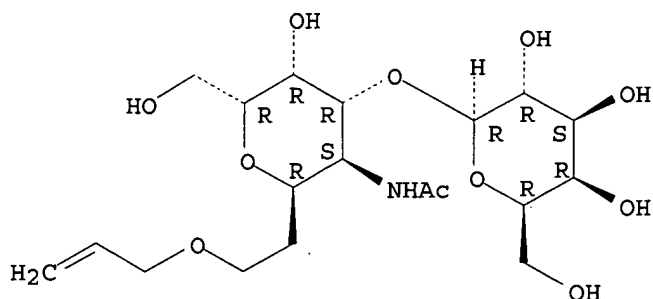
PAGE 1-B



RN 403613-61-6 CA

CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-2,6-anhydro-5,7-dideoxy-4-O-.beta.-D-galactopyranosyl-8-O-2-propenyl- (9CI) (CA INDEX NAME)

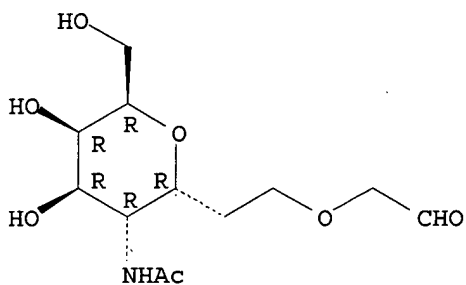
Absolute stereochemistry.



RN 403613-73-0 CA

CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-2,6-anhydro-5,7-dideoxy-8-O-(2-oxoethyl)- (9CI) (CA INDEX NAME)

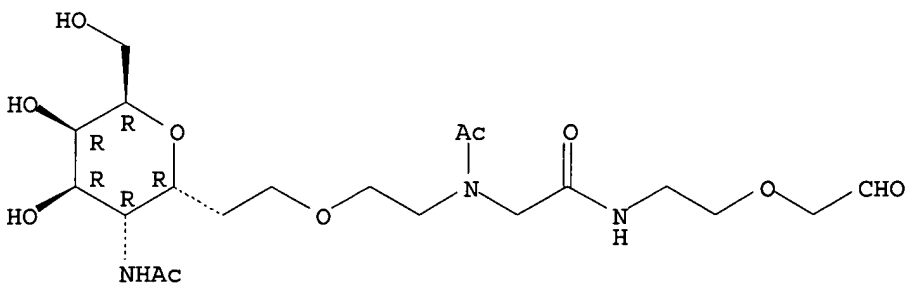
Absolute stereochemistry.



RN 403613-74-1 CA

CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-8-O-[2-[acetyl[2-oxo-2-[[2-(2-oxoethoxy)ethyl]amino]ethyl]amino]ethyl]-2,6-anhydro-5,7-dideoxy- (9CI) (CA INDEX NAME)

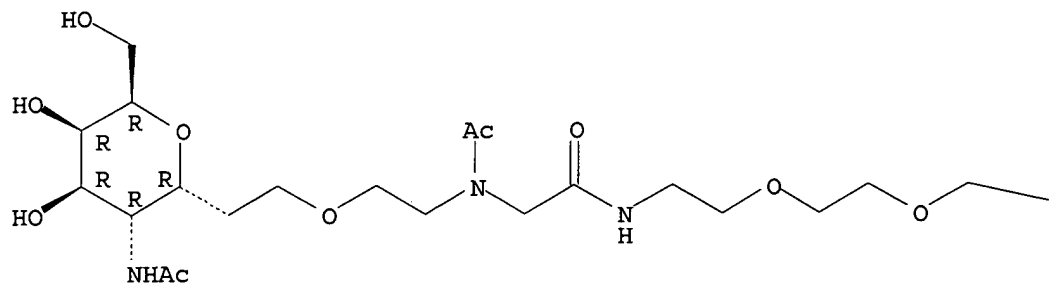
Absolute stereochemistry.



RN 403613-75-2 CA

CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-8-O-(3-acetyl-5,14-dioxo-9,12-dioxo-3,6-diazatetradec-1-yl)-2,6-anhydro-5,7-dideoxy- (9CI) (CA INDEX NAME)

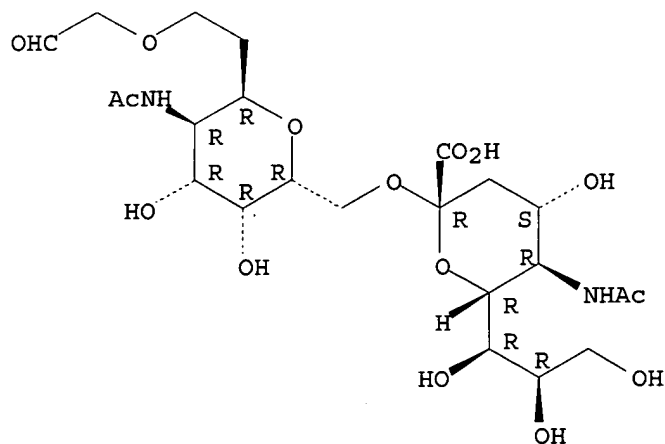
Absolute stereochemistry.



-CHO

RN 403613-78-5 CA.
 CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-1-O-(N-acetyl-.alpha.-neuraminosyl)-2,6-anhydro-5,7-dideoxy-8-O-(2-oxoethyl)- (9CI) (CA INDEX NAME)

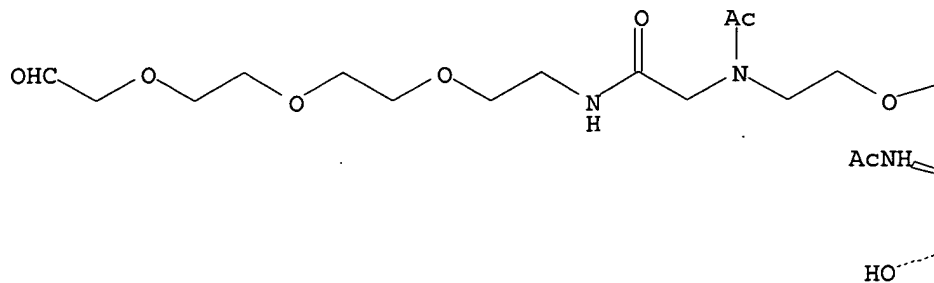
Absolute stereochemistry.



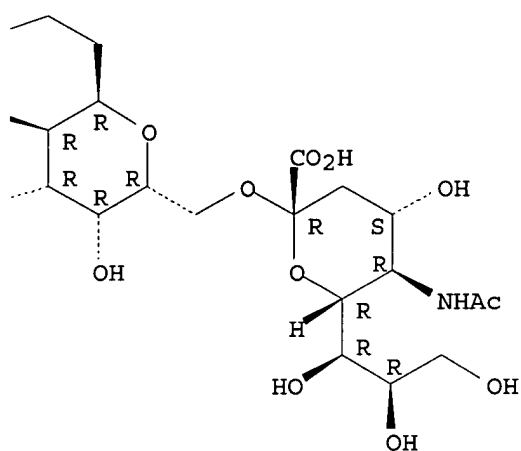
RN 403613-79-6 CA
 CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-8-O-(3-acetyl-5,17-dioxo-9,12,15-trioxa-3,6-diazaheptadec-1-yl)-1-O-(N-acetyl-.alpha.-neuraminosyl)-2,6-anhydro-5,7-dideoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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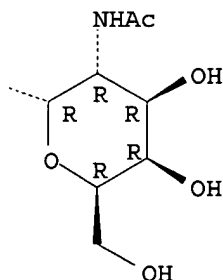
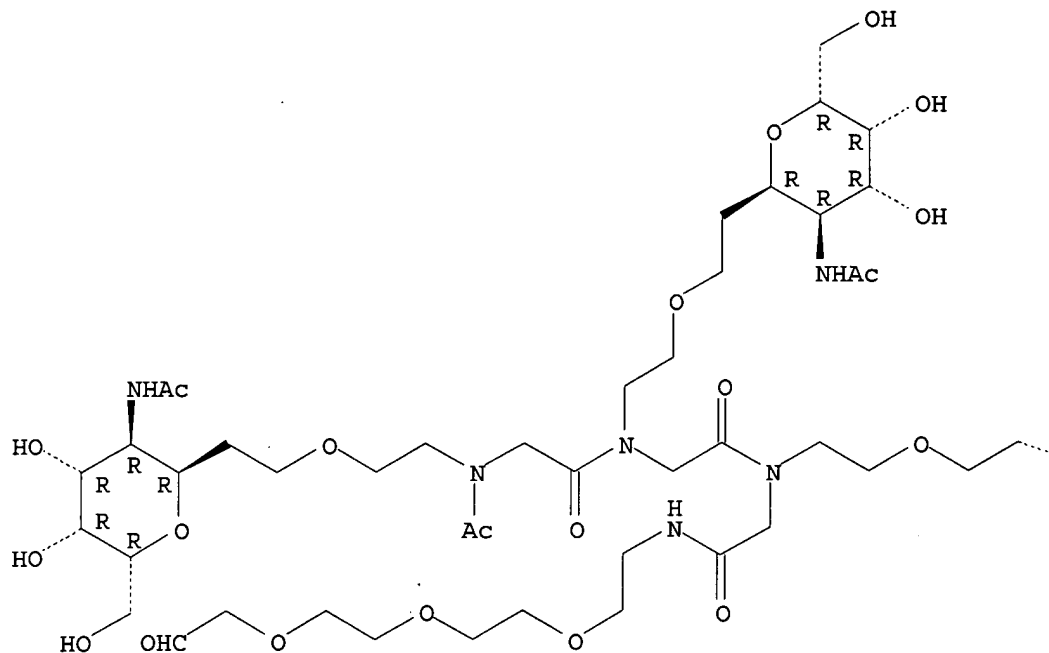


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RN 403613-80-9 CA
 CN Glycinamide, N-acetyl-N-[2-[5-(acetylamino)-2,6-anhydro-5,7-dideoxy-D-glycero-L-galacto-octitol-8-O-yl]ethyl]glycyl-N-[2-[5-(acetylamino)-2,6-anhydro-5,7-dideoxy-D-glycero-L-galacto-octitol-8-O-yl]ethyl]glycyl-N2-[2-[5-(acetylamino)-2,6-anhydro-5,7-dideoxy-D-glycero-L-galacto-octitol-8-O-yl]ethyl]-N-[2-[2-[2-(2-oxoethoxy)ethoxy]ethoxy]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 403613-56-9P 403613-68-3P 403613-69-4P
403613-71-8P 403613-72-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

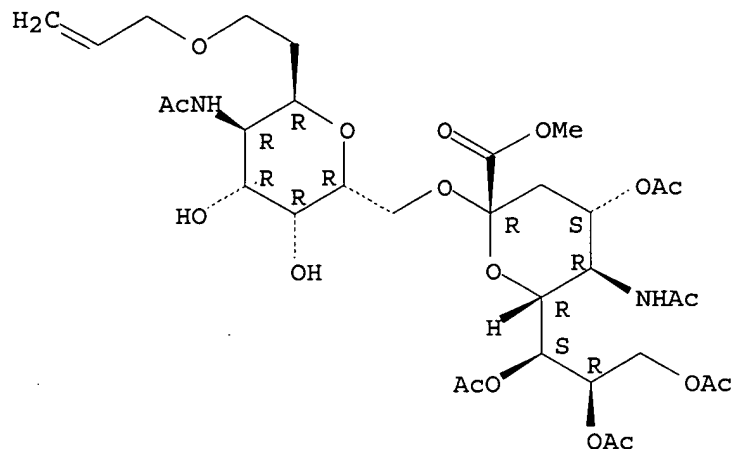
(prepn. of non-mucine-type sialo-oligosaccharide monoclonal antibodies as immunostimulants and antiviral and antitumor agents)

RN 403613-56-9 CA

CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-1-O-(N-acetyl-4,7,8,9-tetra-O-acetyl-1-methyl-α-neuraminosyl)-2,6-anhydro-5,7-dideoxy-8-O-2-

propenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

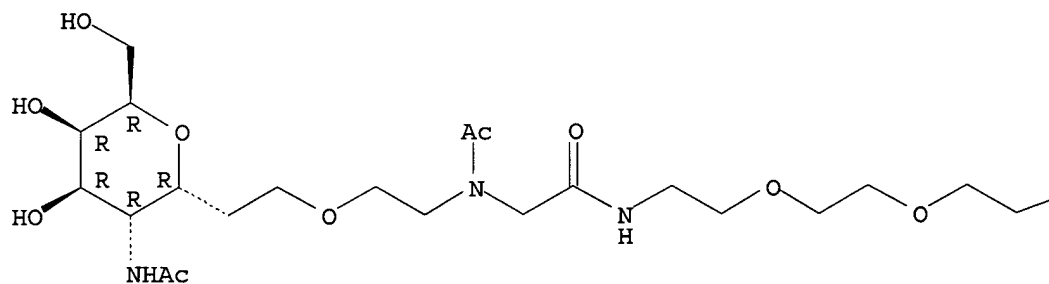


RN 403613-68-3 CA

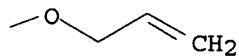
CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-8-O-(3-acetyl-5-oxo-9,12,15-trioxa-3,6-diazaoctadec-17-en-1-yl)-2,6-anhydro-5,7-dideoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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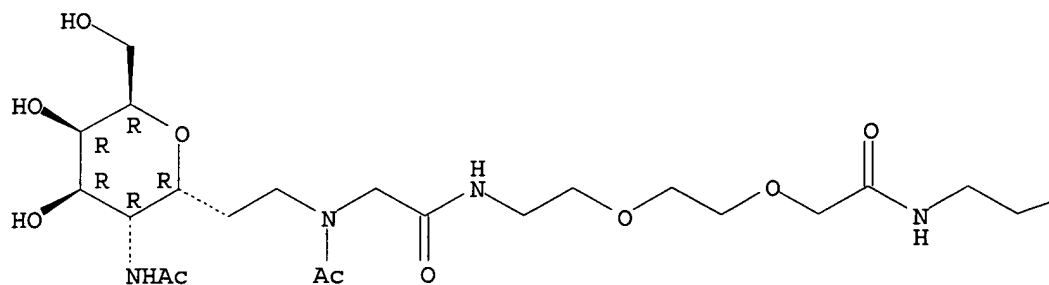


RN 403613-69-4 CA

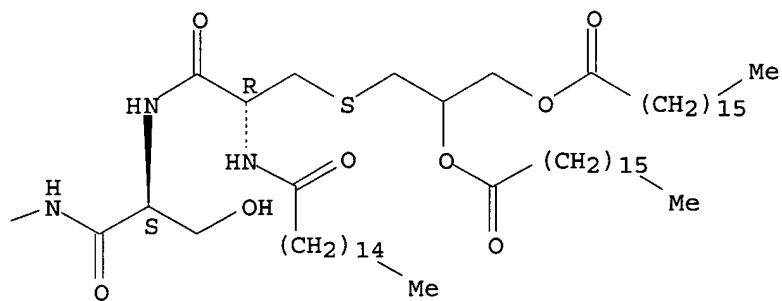
CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-8-[acetyl[14-[[S-[2,3-bis[(1-oxoheptadecyl)oxy]propyl]-N-(1-oxohexadecyl)-L-cysteinyl-L-seryl]amino]-2,11-dioxo-6,9-dioxa-3,12-diazatetradec-1-yl]amino]-2,6-anhydro-5,7,8-trideoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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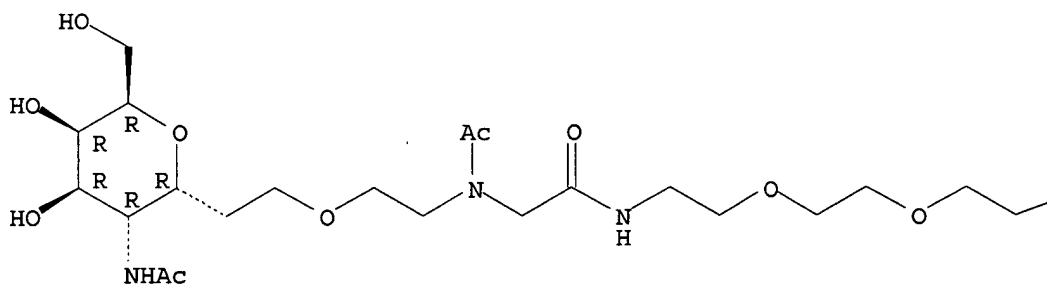
PAGE 1-B



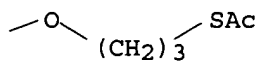
RN 403613-71-8 CA
 CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-8-O-(3-acetyl-5,20-dioxo-9,12,15-trioxa-19-thia-3,6-diazaheneicos-1-yl)-2,6-anhydro-5,7-dideoxy-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

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PAGE 1-B

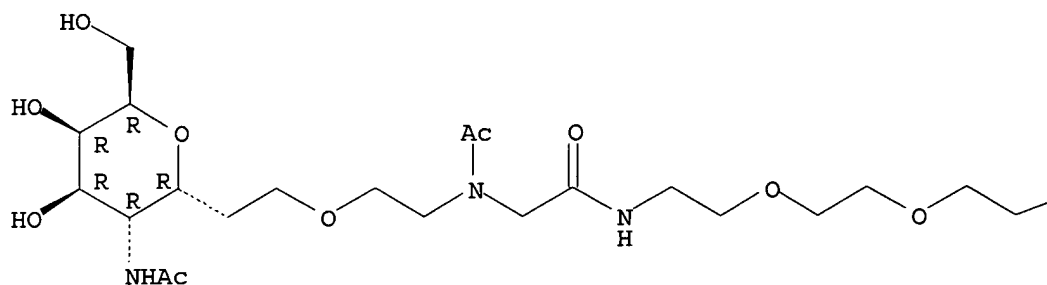


RN 403613-72-9 CA
 CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-8-O-(3-acetyl-18-mercapto-5-

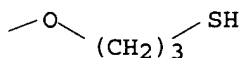
oxo-9,12,15-trioxa-3,6-diazaoctadec-1-yl)-2,6-anhydro-5,7-dideoxy- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



L8 ANSWER 4 OF 9 CA COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 135:44926 CA
TITLE: Synthesis and Biological Evaluation of an Anticancer Vaccine Containing the C-Glycoside Analogue of the Tn Epitope
AUTHOR(S): Peri, Francesco; Cipolla, Laura; Rescigno, Maria; La Ferla, Barbara; Nicotra, Francesco
CORPORATE SOURCE: Department of Biotechnology and Biosciences, University of Milano-Bicocca, Milan, I-20126, Italy
SOURCE: Bioconjugate Chemistry (2001), 12(3), 325-328
CODEN: BCCHES; ISSN: 1043-1802
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The C-saccharide analog of the GalNAc (Tn epitope) has been covalently linked to the T cell epitope peptide 328-340OVA using a chemoselective convergent synthetic approach. In this way, a non-hydrolyzable synthetic vaccine was obtained composed by a B epitope conjugated to a T cell epitope. This compd. was tested in a proliferation assay with spleen cells from DO11.10 mice. The mol. was recognized by transgenic T cells although at a slightly lower efficiency if compared with the ref. peptide OVA. An addnl. expt. with dendritic cells fixed with glutaraldehyde shows that the glycopeptide can bind to extracellular MHC mols. without need of internalization and processing and that the C-glycoside part does not interfere with TCR recognition. These observations constitute an important starting point for the use of this mol. as vaccine against the Tn-expressing TA3-Ha mouse mammary carcinoma.

IT 345201-54-9P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(synthesis and biol. evaluation of an anticancer vaccine contg. the

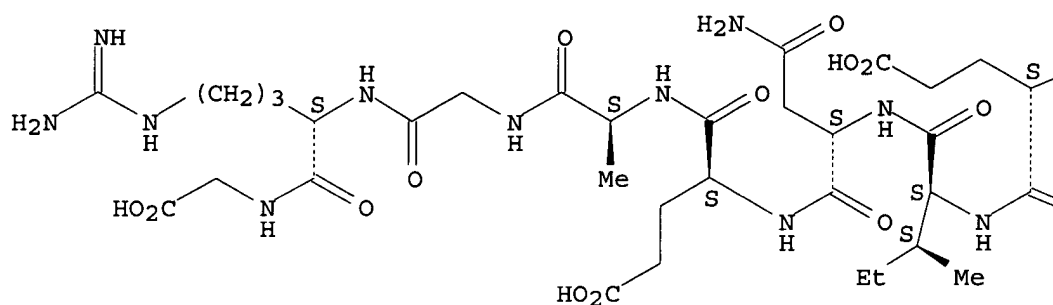
C-Glycoside analog of the Tn epitope)

RN 345201-54-9 CA

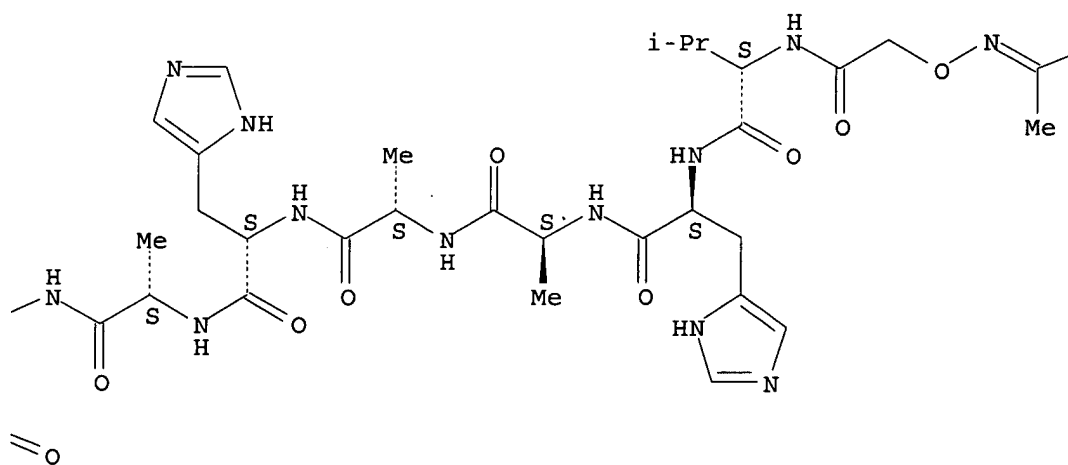
CN Glycine, N-[[[5-(acetylamino)-2,6-anhydro-5,7,8,9-tetradecy-D-glycero-L-galacto-nonitol-8-ylidene]amino]oxy]acetyl]-L-valyl-L-histidyl-L-alanyl-L-alanyl-L-histidyl-L-alanyl-L-.alpha.-glutamyl-L-isoleucyl-L-asparaginyl-L-.alpha.-glutamyl-L-alanylglycyl-L-arginyl- (9CI) (CA INDEX NAME)

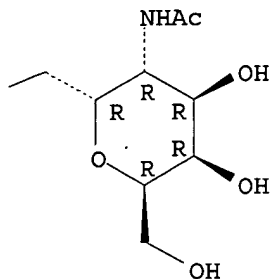
Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A



PAGE 1-B





IT 271246-07-2

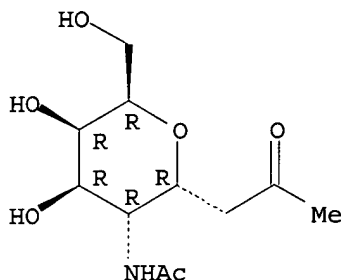
RL: RCT (Reactant); RACT (Reactant or reagent)

(synthesis and biol. evaluation of an anticancer vaccine contg. the C-Glycoside analog of the Tn epitope)

RN 271246-07-2 CA

CN D-glycero-L-glucosyl-2-Nonulose, 5-(acetylamino)-4,8-anhydro-1,3,5-trideoxy-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT:

17

THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 5 OF 9 CA COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 134:101106 CA

TITLE: Radical-Mediated Synthesis of .alpha.-C-Glycosides Based on N-Acyl Galactosamine

AUTHOR(S): SanMartin, Raul; Tavassoli, Bahareh; Walsh, Kenneth E.; Walter, Daryl S.; Gallagher, Timothy

CORPORATE SOURCE: School of Chemistry, University of Bristol, Bristol, BS8 1TS, UK

SOURCE: Organic Letters (2000), 2(25), 4051-4054

CODEN: ORLEF7; ISSN: 1523-7060

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 134:101106

AB C-Glycosides of N-acyl 2-amino-2-deoxygalactose (acyl = MeCO, CF₃CO, t-BuOCO) are available in a stereoselective manner by trapping of an anomeric radical with an activated alkene. Using anomeric selenides, radical generation and trapping is carried out under conditions that avoid competitive redn., and this chem. has been applied to the synthesis of the novel C-glycoside analog of O-benzyl .alpha.-D-GalNAc.

IT 317816-97-0P

RL: SPN (Synthetic preparation); PREP (Preparation)

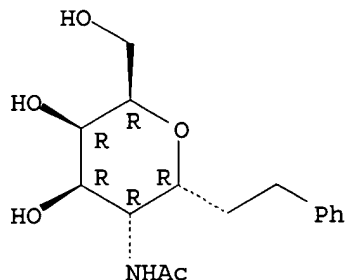
(prepn. of .alpha.-C-glycosides similar to N-acyl galactosamine via a radical mediated stereoselective glycosylation)

RN 317816-97-0 CA

CN D-glycero-L-galacto-Octitol, 5-(acetylamino)-2,6-anhydro-5,7,8-trideoxy-8-

phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 55 THERE ARE 55 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 6 OF 9 CA COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 133:4858 CA

TITLE: Stereoselective synthesis of .alpha.-C-glycosides of N-acetylgalactosamine

AUTHOR(S): Cipolla, Laura; La Ferla, Barbara; Lay, Luigi; Peri, Francesco; Nicotra, Francesco

CORPORATE SOURCE: Dipartimento di Biotecnologie e Bioscienze, Dipartimento di Biotecnologie e Bioscienze, Universita degli Studi di Milano-Bicocca, Milan, 20126, Italy

SOURCE: Tetrahedron: Asymmetry (2000), 11(1), 295-303

CODEN: TASYE3; ISSN: 0957-4166

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 133:4858

AB Attempts to synthesize .alpha.-C-glycosides of N-acetylgalactosamine by selective deprotection at C-2' of allyl .alpha.-C-galactoside and subsequent amination failed, but opened the way to .alpha.-C-talopyranosides. The synthesis of .alpha.-C-glycosides of N-acetylgalactosamine was performed from allyl .alpha.-C-glucopyranoside, which was regioselectively deprotected, stereoselectively aminated at C-2', and finally epimerized at C-4'.

IT 271246-14-1P

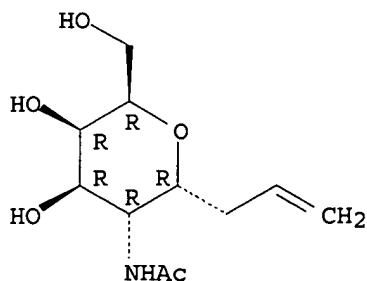
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and conversion of allyl function to Me ketone; stereoselective synthesis of .alpha.-C-glycosides of N-acetylgalactosamine)

RN 271246-14-1 CA

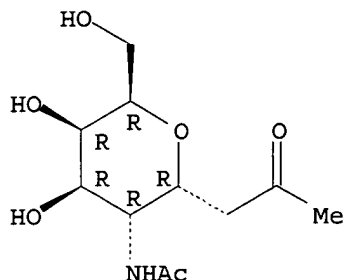
CN D-glycero-L-galacto-Non-8-enitol, 5-(acetylamino)-2,6-anhydro-5,7,8,9-tetradexoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 271246-07-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (stereoselective synthesis of .alpha.-C-glycosides of
 N-acetylgalactosamine)
 RN 271246-07-2 CA
 CN D-glycero-L-gluco-2-Nonulose, 5-(acetylamino)-4,8-anhydro-1,3,5-trideoxy-
 (9CI) (CA INDEX NAME)

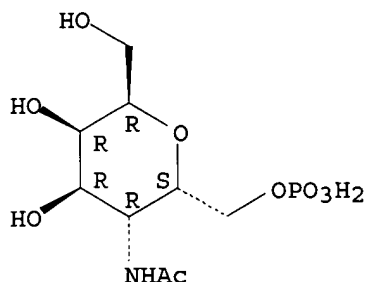
Absolute stereochemistry.



REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 7 OF 9 CA COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 132:208073 CA
 TITLE: Synthesis of Novel Donor Mimetics of UDP-Gal,
 UDP-GlcNAc, and UDP-GalNAc as Potential Transferase
 Inhibitors
 AUTHOR(S): Schaefer, Andreas; Thiem, Joachim
 CORPORATE SOURCE: Institut fuer Organische Chemie, Universitaet Hamburg,
 Hamburg, D-20146, Germany
 SOURCE: Journal of Organic Chemistry (2000), 65(1), 24-29
 CODEN: JOCEAH; ISSN: 0022-3263
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB For the enzymic transfer of galactose, N-acetylglucosamine, and
 N-acetylgalactosamine, UDP-Gal, UDP-GlcNAc, and UDP-GalNAc are employed,
 and UDP serves as a feedback inhibitor. In this paper the synthesis of
 the novel UDP-sugar analogs as potential transferase inhibitors is
 described. UDP-sugar analogs feature C-glycosidic hydroxymethylene
 linkages between the sugar and nucleoside moieties in contrast to the
 anomeric oxygens in the natural derivs.
 IT 260551-16-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (synthesis of donor mimetics of UDP-Gal, UDP-GlcNAc, and UDP-GalNAc as
 potential transferase inhibitors)
 RN 260551-16-4 CA
 CN D-glycero-L-galacto-Heptitol, 5-(acetylamino)-2,6-anhydro-5-deoxy-,
 7-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



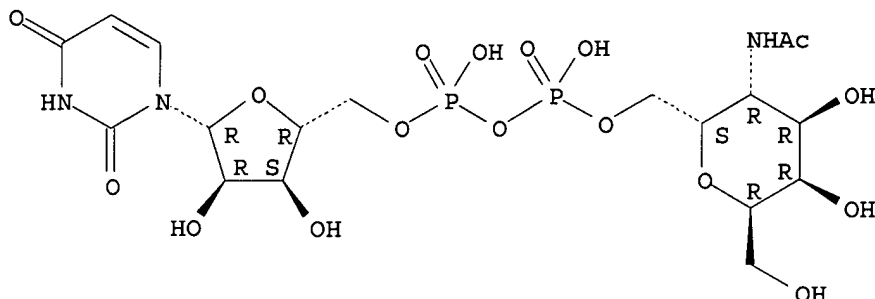
IT 260551-04-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis of donor mimetics of UDP-Gal, UDP-GlcNAc, and UDP-GalNAc as potential transferase inhibitors)

RN 260551-04-0 CA

CN Uridine 5'-(trihydrogen diphosphate), P'.fwdarw.7-ester with
5-(acetylamino)-2,6-anhydro-5-deoxy-D-glycero-L-galacto-heptitol (9CI)
(CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 8 OF 9 CA COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 127:34434 CA

TITLE: Radical mediated synthesis of N-acetyl-D-galactosamine containing C-disaccharides via a temporary phosphoramidic connection

AUTHOR(S): Rubinstenn, Gilles; Esnault, Jacques; Mallet, Jean-Maurice; Sinay, Pierre

CORPORATE SOURCE: Ecole Normale Supérieure, Département de Chimie, URA 1686, Paris, 75231, Fr.

SOURCE: Tetrahedron: Asymmetry (1997), 8(8), 1327-1336

CODEN: TASYE3; ISSN: 0957-4166

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 127:34434

AB The C-disaccharide { α -D-GalNAc-C-(1 \rightarrow 4)- β -D-Glc-OMe} and its interglycosidic β anomer were synthesized by radical coupling of Ph 2-amino-3,4,6-tri-O-benzyl-2-deoxy-1-seleno- α -D-galactopyranoside onto Me 2,6-di-O-benzyl-4-deoxy-4-C-methylene- β -D-xylohexopyranoside, which are temporarily connected through a phosphoramidate tether. A similar reaction was performed with Me 2,3-di-O-benzyl-4-deoxy-4-C-methylene- α -D-xylohexopyranoside to produce the two closely related α -OMe C-disaccharides.

IT. 190782-15-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

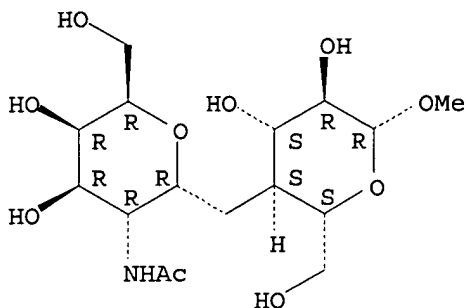
(Reactant or reagent)

(radical mediated prepn. of galactosamine contg. C-disaccharides via a temporary phosphoramidic connection)

RN 190782-15-1 CA

CN .beta.-D-Glucopyranoside, methyl 4-[[2-(acetylamino)-2-deoxy-.alpha.-D-galactopyranosyl]methyl]-4-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



IT 190782-12-8P

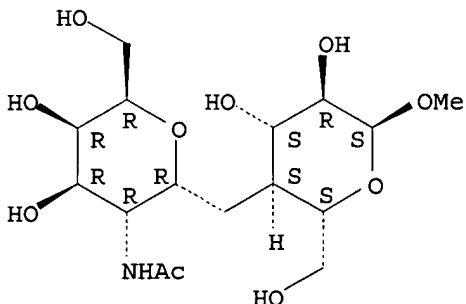
RL: SPN (Synthetic preparation); PREP (Preparation)

(radical mediated prepn. of galactosamine contg. C-disaccharides via a temporary phosphoramidic connection)

RN 190782-12-8 CA

CN .alpha.-D-Glucopyranoside, methyl 4-[[2-(acetylamino)-2-deoxy-.alpha.-D-galactopyranosyl]methyl]-4-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



L8 ANSWER 9 OF 9 CA COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 122:161118 CA

TITLE: Synthesis of .alpha.-C-glycopyranosides of D-galactosamine and D-glucosamine via iodocyclization of corresponding glycals and silver tetrafluoroborane-promoted alkynylation at the anomeric center

AUTHOR(S): Leteux, Christine; Veyrieres, Alain

CORPORATE SOURCE: UFR-Fac. Sci., Univ. Orleans, Orleans, 45067, Fr.

SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1994), (18), 2647-55

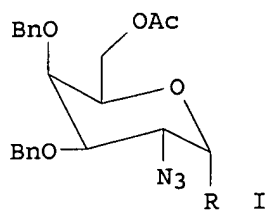
CODEN: JCPRB4; ISSN: 0300-922X

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 122:161118

GI



AB Iodointramol cyclocondensation of O-stannylated D-galactal followed by azidolysis gave 1,6-anhydro-2-azido-2-deoxy-.beta.-D-galactopyranose. Transformation into bromide I (R = Br) allowed coupling of various alkynyltributylstannanes in the presence of silver tetrafluoroboranuide (silver tetrafluoroborate), thus affording the corresponding .alpha., .beta.-C-(D-galactopyranosyl)alkynes, e.g. I (R = C.tplbond.CPh).

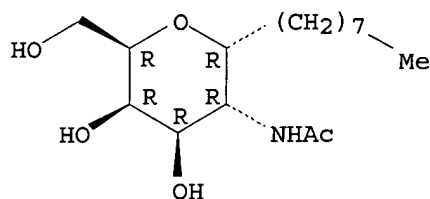
IT 161254-84-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis of acetamidodeoxy C-glycopyranosides via iodination-cycloaddn. of glycals and silver tetrafluoroborate promoted C-alkynylation)

RN 161254-84-8 CA

CN Acetamide, N-[tetrahydro-4,5-dihydroxy-6-(hydroxymethyl)-2-octyl-2H-pyran-3-yl]-, [2R-(2.alpha.,3.alpha.,4.beta.,5.beta.,6.beta.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L Number	Hits	Search Text	DB	Time stamp
1	254	forssman	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/09/10 17:10
2	9	forssman adj disaccharide	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/09/10 17:30
3	0	forssman and C-glyco?	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/09/10 17:30
4	0	forssman and C-glycoside	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/09/10 17:43
5	210	C-glycoside	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/09/10 18:00
6	134	C-glycosides	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/09/10 17:43
7	21	C-glycoside and galactosamine	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/09/10 18:07
8	0	C-galactosamine	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/09/10 18:00
9	1	C-galactoside	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/09/10 18:01
10	1	C-glycosides and N-acetylgalactosamine	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/09/10 18:10
11	0	C-glycosides and N-acetylgalacto?	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/09/10 18:09
12	1	C-glycosides and N-acetylgalacto\$	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/09/10 18:09
13	39	C-glycosides and galactose	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/09/10 18:10
14	23	(C-glycosides and galactose) and N-acetyl\$	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/09/10 18:11